# Service Manual



ORDER NO. ARP3086

PROJECTION MONITOR RECEIVER

# PRO-710HD PRO-610HD PRO-510HD SD-582HD5 SD-532HD5

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

<b>T</b>			Model		Barrer Barrelmana and	Domorko		
Туре	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	Power Requirement	Remarks	
KUXC/CA	0	0	0	0	0	AC120V		
KBXC	_	_	_	_	0	AC120V		

■ In PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5, there are two different models (original model and value analysis model) respectively. Confirm the serial No. of the product rear side, and use each service manual. Refer to page 2.

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#### **■ SERIAL NO.**

Serial No.	Model No.	Service Manual			
00001*****00	PRO-710HD, PRO-610HD, PRO-510HD,	ARP3086 [This manual]			
	SD-582HD5, SD-532HD5 (value analysis model)	ARP3047, ARP3051 (PRO-610HD)			
	PRO-610HD, PRO-510HD,	ADD2047 ADD2054 (DD0 C40UD)			
OTHER	SD-582HD5, SD-532HD5 (original model)	ARP3047, ARP3051 (PRO-610HD)			
OTHER	DDC 710UD (original model)	ARP3065 (PRO-710HD)			
	PRO-710HD (original model)	ARP3047, ARP3051 (PRO-610HD)			

#### **■ CONTRAST OF PCB ASSEMBLIES**

			Part	No.		
		origina	l model	value anal	ysis model	
Mark	Symbol and Description	PRO-710HD	SD-582HD5	PRO-710HD	SD-582HD5	Remarks
		PRO-610HD	SD-532HD5	PRO-610HD	SD-532HD5	
		PRO-510HD		PRO-510HD		
	POWER SUPPLY ASSY	AWV1795	AWV1808	AWV1872	AWV1869	*1
					AWV1873	KBXC Type only
☆	DEFLECTION SERVICE ASSY	AWV1809	AWV1809	AWV1809	AWV1809	
	AMP ASSY	AWV1797	AWV1797	AWV1797	AWV1797	*2
NSP	DIGITAL CONV. ASSY	AWV1798	AWV1803	AWV1798	AWV1803	Refer to ARP3047
	VIDEO ASSY	AWV1799	AWV1804	AWV1799	AWV1804	Refer to ARP3047
	SIGNAL ASSY	AWV1800	AWV1805	AWV1866	AWV1870	*1
	SUB VIDEO SERVICE ASSY	AWV1819	Not used	AWV1868	Not used	*1
	SUB VIDEO ASSY	Not used	AWV1806	Not used	AWV1871	*1
	AV I/O ASSY	AWV1802	AWV1807	AWV1802	AWV1807	Refer to ARP3047

<sup>\*1</sup>: There is not interchangeability with original model and value analysis model.

<sup>\*2 :</sup> By design change, the IC5101, IC5151 and IC5201 of AMP ASSY was changed in TDA6120QN2 by TDA6120QN1. And diodes is necessary in case of TDA6120QN2. Refer to "3.36 R, G and B CRT ASSY" schematic diagram.

#### 1. SAFETY INFORMATION

## 1.3 CHARGED SECTION, HIGH VOLTAGE GENERATING POINT AND X-RAY PROTECTION

#### **■** Charged section

The circuit in which the commercial AC power is used as it is without passing through the power supply transformer. If the charged section is touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. In this case, be sure to connect the set via an insulated transformer and supply the current.

#### ■ Charged section (Power supply primary side)

- 1. The primary side of the AC IN assy
- 2. AC power cord
- 3. The primary side of the POWER SUPPLY assy
- 4. AC power cord for DTV STB (PRO-710HD, PRO-610HD and PRO-510HD Only)
- : Part is the charged section.
- : Part is the high voltage generating points other than the charged section.

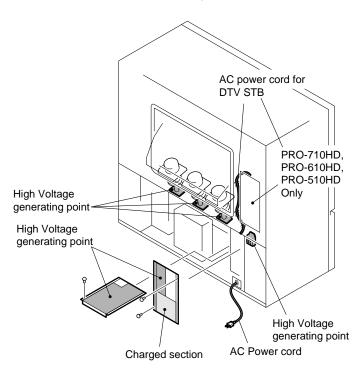


Fig. 1 Charged section and high voltage generating point

#### ■ High voltage generating point

The place where voltage is 100V is generated.

1.Charged seciton

DEFLECTION assy

(including FBT) (30.5kV, 1.2kV, 210V,135V)

2. POWER SUPPLY assy (135V)

3. R. CRT DRIVE assy (10.5kV, 210V)

4. G. CRT DRIVE assy (10.5kV, 210V)

5. B. CRT DRIVE assy (10.5kV, 210V)

6. CRT assy R (CRT service assy R) (30.5kV)

7. CRT assy G (CRT service assy G) (30.5kV)

8. CRT assy B (CRT service assy B) (30.5kV)

9. Focus variable resistor(VR1) (10.5kV)

10. Deflection yokes (L1, L2 and L3) Approx. (1100V at peak)

#### ■ X-ray protection

- Regarding the parts which are relative to radiation of X-rays (There is the danger to radiate X-ray from the individual CRT assy R, G, B), there are notifications of caution in the individual schematic diagrams. Be sure to read them for safety's sake.
- The component parts for X-ray protection are as follows:
   When the current flows to the CRT assy R, G, B, be sure to perform it with these parts being attached. Protection from the X-ray radiation is maintained in the state in which these parts have been installed to the CRT assy. R, G, B. Accordingly, never supply current only to the CRT assy R, G, B.

Moreover, the anode voltage of the CRT assy R, G, B should always be kept not higher than the predetermined value (in the minimum brightness and picture state when non signal input is less than 30.5kV). Be sure to drive the CRT assy R, G, B by using a completely functional DE-FLECTION assy which have been adjusted completely in the combined state. (When the voltage abnormally becomes high, the X-ray protection circuit will operate.)

 CRT assy R, G, B (Do not dismantle CRT assemblies under any circumastances)

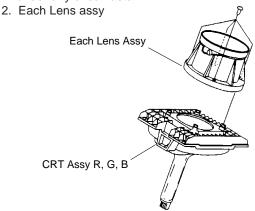
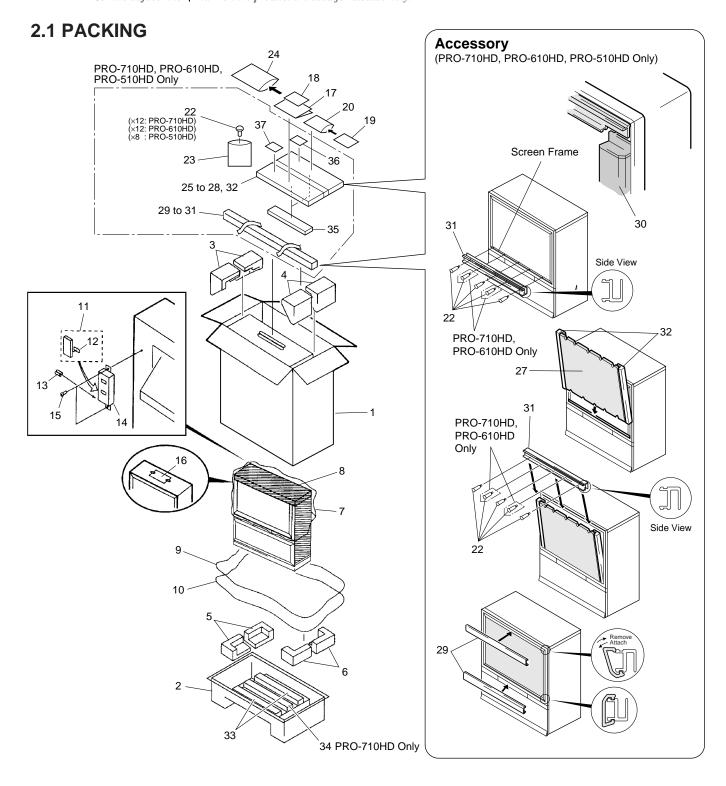


Fig. 2 Component parts for X-ray protection

#### 2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by ☆ are important parts which relate in X-rays radiation.
   If any of these parts need to be replaced, always replace with specified parts.
- Screws adjacent to **▼** mark on the product are used for disassembly.



## (1) PACKING PARTS LIST

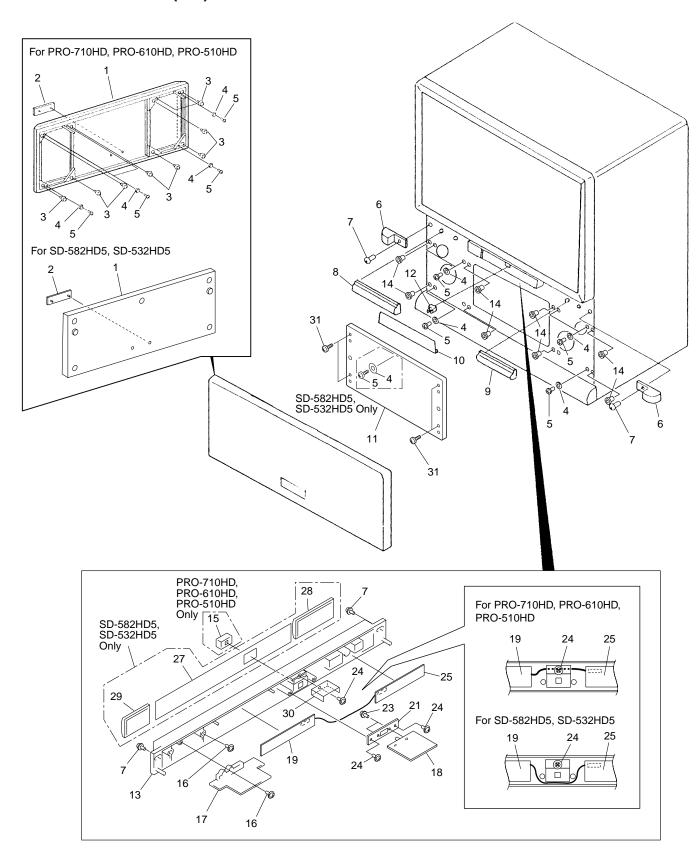
Mar	k No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Upper Carton	See Contrast table (2)		31	Panel Frame H	See Contrast table (2)
	2	Under Carton	See Contrast table (2)		32	Panel Frame V	See Contrast table (2)
	3	Upper Pad L	See Contrast table (2)	NSP	33	Under Cushion A	See Contrast table (2)
	4	Upper Pad R	See Contrast table (2)	NSP	34	Under Cushion B	See Contrast table (2)
	5	Under Pad L	See Contrast table (2)		35	Cushion	See Contrast table (2)
	6	Under Pad R	See Contrast table (2)		36	PC Caution Card (English)	See Contrast table (2)
NSP	7	Vinyl Sheet Upper	See Contrast table (2)		37	PC Caution Card (French)	See Contrast table (2)
NSP	8	Packing Sheet	See Contrast table (2)				
NSP	9	Packing Sheet Under	See Contrast table (2)				
	10	Vinyl Sheet Under	See Contrast table (2)				
	11	Remote Control Unit	See Contrast table (2)				
	12	Battery Cover	AZN2401				
NSP	13	Alkarine Dry Cell Battery	AEX1018				
		(LR6,AA)					
	14	CU Packing Case	AHC1032				
	15	Special Screw	ABA1239				
	16	CONV. Attention Card	See Contrast table (2)				
	17	Operating Instructions	See Contrast table (2)				
NSP	18	Caution Card	ARM1057				
NSP	19	Warranty Card	See Contrast table (2)				
NSP	20	Poly Bag	See Contrast table (2)				
	21						
	22	Special Screw	See Contrast table (2)				
		(Panel Frame Attaching Screw)					
NSP	23	Wrapper Bag	See Contrast table (2)				
NSP	24	Literature Bag	AHG1222				
	25	Panel Case	See Contrast table (2)				
	26						
	27	Contrast Screen	See Contrast table (2)				
	28	Acrylic Caution Card	See Contrast table (2)				
	29	Frame Cover H	See Contrast table (2)				
	30	Frame Cover V Assy	See Contrast table (2)				

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No	Symbol and Description			Part	No.			
IVIALK	No.	Cymbol and Description	PRO-710HD KUXC/CA	PRO-610HD KUXC/CA	PRO-510HD KUXC/CA	SD-582HD5 KUXC/CA	SD-532HD5 KUXC/CA	SD-532HD5 KBXC	Remarks
	1	Upper Carton	AHD3065	AHD3045	AHD3046	AHD3049	AHD3050	AHD3050	
	2	Under Carton	AHD2995	AHD3047	AHD3048	AHD3047	AHD3048	AHD3048	
	3	Upper Pad L	AHA2222	AHA2253	AHA2253	AHA2253	AHA2253	AHA2253	
	4	Upper Pad R	AHA2223	AHA2254	AHA2254	AHA2254	AHA2254	AHA2254	
	5	Under Pad L	AHA2224	AHA2255	AHA2255	AHA2255	AHA2255	AHA2255	
	6	Under Pad R	AHA2225	AHA2256	AHA2256	AHA2256	AHA2256	AHA2256	
NSP	7	Vinyl Sheet Upper	AHG1288	AHG1288	AHG1095	AHG1288	AHG1095	AHG1095	
NSP	8	Packing Sheet	AHG1230	AHG1230	AHG1120	AHG1230	AHG1120	AHG1120	
NSP	9	Packing Sheet Under	AHG1290	AHG1290	AHG1235	AHG1290	AHG1235	AHG1235	
	10	Vinyl Sheet Under	AHG1289	AHG1289	AHG1234	AHG1289	AHG1234	AHG1234	
	11	Remote Control Unit	AXD1448	AXD1448	AXD1448	AXD1449	AXD1449	AXD1449	
			(CU-SD110)	(CU-SD110)	(CU-SD110)	(CU-SD111)	(CU-SD111)	(CU-SD111)	
	16	CONV. Attention Card	ARM1173	ARM1173	ARM1173	ARM1174	ARM1174	ARM1174	
	17	Operating Instructions (English)	ARB1527	ARB1527	ARB1527	ARB1528	ARB1528	ARB1528	
NSP	19	Warranty Card	ARY1026	ARY1026	ARY1026	ARY1050	ARY1050	Not used	
NSP	20	Poly Bag	AHG1285	AHG1285	AHG1285	AHG1285	AHG1285	Not used	
	22	Special Screw	ABA1226	ABA1280	ABA1280	Not used	Not used	Not used	
NSP	23	Wrapper Bag	AHG1076	AHG1076	AHG1076	Not used	Not used	Not used	
	25	Panel Case	AHB1228	AHB1227	AHB1226	Not used	Not used	Not used	
	27	Contrast Screen	AAK2768	AAK2767	AAK2766	Not used	Not used	Not used	
	28	Acrylic Caution Card	ARH1167	ARH1167	ARH1167	Not used	Not used	Not used	
	29	Frame Cover H	AAP1593	AAP1613	AAP1614	Not used	Not used	Not used	
	30	Frame Cover V Assy	AAP1594	AAP1617	AAP1619	Not used	Not used	Not used	
	31	Panel Frame H	AND1163	AAP1629	AAP1630	Not used	Not used	Not used	
	32	Panel Frame V	AND1164	AND1169	AND1167	Not used	Not used	Not used	
NSP	33	Under Cushion A	AHA2228	AHA2258	AHA2260	AHA2258	AHA2260	AHA2260	
NSP	34	Under Cushion B	AHA2229	Not used	Not used	Not used	Not used	Not used	
	35	Cushion	AHA2268	AHA2267	AHA2266	Not used	Not used	Not used	
	36	PC Caution Card (English)	ARM1190	ARM1190	ARM1190	Not used	Not used	Not used	
	37	PC Caution Card (French)	ARM1191	ARM1191	ARM1191	Not used	Not used	Not used	

### 2.2 FRONT VIEW (1/2)



#### (1) FRONT VIEW (1/2) PARTS LIST

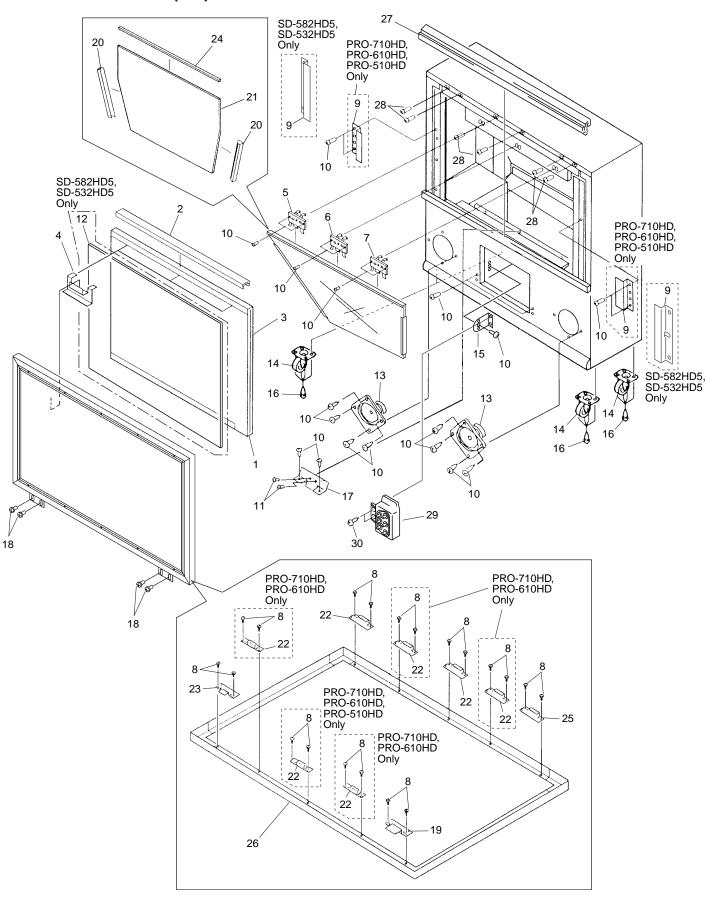
No.	Description	Part No.	Mark	No.	Description	Part No.
1	Grille	See Contrast table (2)	NSP	21	Switch Holder	ANG2313
2	Badge	See Contrast table (2)		22		
3	Catcher A	See Contrast table (2)		23	Screw	AMZ30P060FZK
4	Magic Tape	AEC1394		24	Screw	APZ30P080FZK
5	Screw	ABA1271		25	LED DPO Assy	See Contrast table (2)
6	Side Cover	See Contrast table (2)		26		
7	Special Screw	ABA1240		27	Control Sheet	See Contrast table (2)
8	Side Panel Assy L	See Contrast table (2)		28	Indicator Panel L	See Contrast table (2)
9	Side Panel Assy R	See Contrast table (2)		29	Indicator Panel R	See Contrast table (2)
10	Door Assy	See Contrast table (2)	NSP	30	Front Shield	ANK1502
11	Blind Plate	AMM3009		31	Special Screw	ABA1249
12	Catcher F2M	AEC1609			·	
13	Front Panel Assy	See Contrast table (2)				
14	Catch B	See Contrast table (2)				
15	Power Knob	See Contrast table (2)				
16	Screw	ABZ40P080FZK				
17	FRONT INPUT Assy	See Contrast table (2)				
18	POWER SW Assy	AWZ6467				
19	•	AWZ6462				
20						
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 Grille 2 Badge 3 Catcher A 4 Magic Tape 5 Screw 6 Side Cover 7 Special Screw 8 Side Panel Assy L 9 Side Panel Assy R 10 Door Assy 11 Blind Plate 12 Catcher F2M 13 Front Panel Assy 14 Catch B 15 Power Knob 16 Screw 17 FRONT INPUT Assy 18 POWER SW Assy 19 FRONT CONTROL Assy	1 Grille See Contrast table (2) 2 Badge See Contrast table (2) 3 Catcher A See Contrast table (2) 4 Magic Tape AEC1394 5 Screw ABA1271 6 Side Cover See Contrast table (2) 7 Special Screw ABA1240 8 Side Panel Assy L See Contrast table (2) 9 Side Panel Assy R See Contrast table (2) 10 Door Assy See Contrast table (2) 11 Blind Plate AMM3009 12 Catcher F2M AEC1609 13 Front Panel Assy See Contrast table (2) 14 Catch B See Contrast table (2) 15 Power Knob See Contrast table (2) 16 Screw ABZ40P080FZK 17 FRONT INPUT Assy See Contrast table (2) 18 POWER SW Assy AWZ6467 19 FRONT CONTROL Assy AWZ6462	1 Grille See Contrast table (2) NSP 2 Badge See Contrast table (2) 3 Catcher A See Contrast table (2) 4 Magic Tape AEC1394 5 Screw ABA1271 6 Side Cover See Contrast table (2) 7 Special Screw ABA1240 8 Side Panel Assy L See Contrast table (2) 9 Side Panel Assy R See Contrast table (2) 10 Door Assy See Contrast table (2) 11 Blind Plate AMM3009 12 Catcher F2M AEC1609 13 Front Panel Assy See Contrast table (2) 14 Catch B See Contrast table (2) 15 Power Knob See Contrast table (2) 16 Screw ABZ40P080FZK 17 FRONT INPUT Assy See Contrast table (2) 18 POWER SW Assy AWZ6467 19 FRONT CONTROL Assy AWZ6462	1         Grille         See Contrast table (2)         NSP         21           2         Badge         See Contrast table (2)         22           3         Catcher A         See Contrast table (2)         23           4         Magic Tape         AEC1394         24           5         Screw         ABA1271         25           6         Side Cover         See Contrast table (2)         26           7         Special Screw         ABA1240         27           8         Side Panel Assy L         See Contrast table (2)         28           9         Side Panel Assy R         See Contrast table (2)         29           10         Door Assy         See Contrast table (2)         NSP         30           11         Blind Plate         AMM3009         31           12         Catcher F2M         AEC1609         31           13         Front Panel Assy         See Contrast table (2)           14         Catch B         See Contrast table (2)           15         Power Knob         See Contrast table (2)           16         Screw         ABZ40P080FZK           17         FRONT INPUT Assy         See Contrast table (2)           18	1 Grille See Contrast table (2) NSP 21 Switch Holder 2 Badge See Contrast table (2) 22

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	Na	Combal and Decemention			Part No.			Remarks
Mark	No.	Symbol and Description	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	
	1	Grille	AMM2936	AMM3003	AMM3004	AMR3173	AMR3174	
	2	Badge	AAM1081	AAM1081	AAM1081	AAM1088	AAM1088	
NSP	3	Catcher A	ANZ-241	ANZ-241	ANZ-241	Not used	Not used	
	6	Side Cover	AMR3107	AMR3107	AMR3107	Not used	Not used	
	8	Side Panel Assy L	AMB2627	AMB2662	AMB2664	Not used	Not used	
	9	Side Panel Assy R	AMB2676	AMB2663	AMB2665	Not used	Not used	
	10	Door Assy	AAN1461	AAN1461	AAN1461	AAN1459	AAN1457	
	13	Front Panel Assy	AMB2666	AMB2666	AMB2666	Not used	Not used	
	13	Control Panel	Not used	Not used	Not used	AMB2657	AMB2657	
	14	Catch B	AEC1507	AEC1507	AEC1507	ANZ-242	ANZ-242	
	15	Power Knob	AAD4105	AAD4105	AAD4105	Not used	Not used	
	17	FRONT INPUT Assy	AWZ6466	AWZ6466	AWZ6466	AWZ6471	AWZ6471	
	25	LED DPO Assy	AWZ6463	AWZ6463	AWZ6463	AWZ6470	AWZ6470	
	27	Control Sheet	Not used	Not used	Not used	AMB2751	AMB2751	
	28	Indicator Panel L	Not used	Not used	Not used	AMB2752	AMB2752	
	29	Indicator Panel R	Not used	Not used	Not used	AMB2753	AMB2753	

### 2.3 FRONT VIEW (2/2)



#### (1) FRONT VIEW (2/2) PARTS LIST

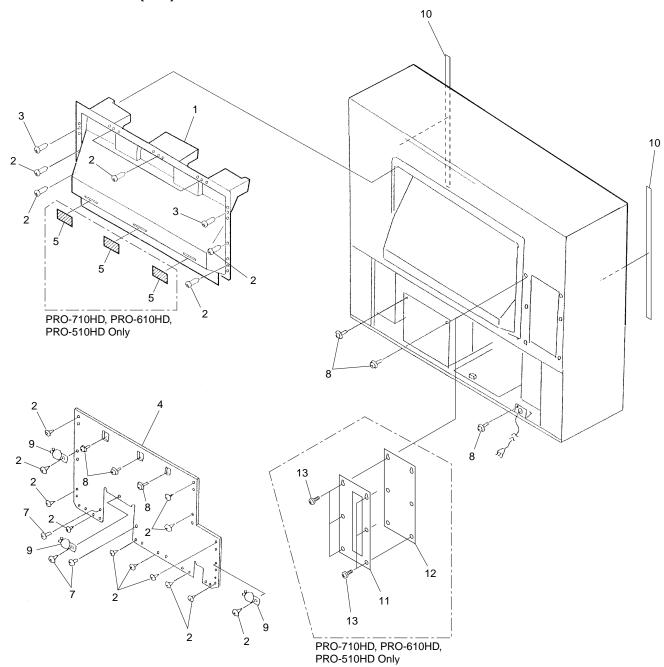
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Lenticular Sheet	See Contrast table (2)		26	Screen Frame Assy	See Contrast table (2)
	2	Screen Holder Top	See Contrast table (2)		27	Screen Holder Low	See Contrast table (2)
	3	Fresnel	See Contrast table (2)		28	Screw	BYC35P160FZK
NSP	4	Upper Cabinet Metal	See Contrast table (2)	Æ	29	Focus VR (VR1)	ACX1096
NSP	5	Mirror Upper Stay L	ANG2004	Z•\	30	Screw	BBZ30P080FZK
NSP	6	Mirror Upper Stay C	ANG2006				
NSP	7	Mirror Upper Stay R	ANG2005				
	8	Screw	See Contrast table (2)				
NSP	9	Screen Side Fitting	See Contrast table (2)				
	10	Special Screw	ABA1240				
	11	Screw	ACZ40P080FMC				
	12	Contrast Screen	See Contrast table (2)				
	13	Cone Speaker	APV1021				
	14	Caster	AMR2547				
NSP	15	VR Holder	ANG1956				
	16	Special Screw	ABA1273				
NSP	17	CRT Front Holder	ANG2118				
	18	Screw M5	ABA1189				
NSP	19	Under Screen Metal B	See Contrast table (2)				
	20	Mirror Frame V	See Contrast table (2)				
	21	Mirror	See Contrast table (2)				
NSP	22	Upper Screen Metal B	See Contrast table (2)				
NSP	23	Under Screen Metal A	See Contrast table (2)				
	24	Mirror Frame H	See Contrast table (2)				
NSP	25	Upper Screen Metal A	See Contrast table (2)				

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Moule	Na	Symbol and Description			Part No.			Remarks
Mark	No.	Symbol and Description	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	Remarks
	1	Lenticular Sheet	AMR3115	AMR3184	AMR3185	AMR3178	AMR3179	
	2	Screen Holder Top	ANG2312	ANG2369	ANG2370	ANG2363	ANG2364	
	3	Fresnel	AMR3116	AMR3186	AMR3187	AMR3180	AMR3181	
NSP	4	Upper Cabinet Metal	ANG2000	ANG2000	ANG2000	ANG2358	ANG2358	
	8	Screw	BYC40P160FMC	BYC40P160FMC	BYC40P160FMC	BYC40P140FZK	BYC40P140FZK	
NSP	9	Screen Side Fitting	ANG1993	ANG1993	ANG1993	ANG2366	ANG2362	
	12	Contrast Screen	Not used	Not used	Not used	AAK2747	AAK2748	
NSP	19	Under Screen Metal B	ANG2009	ANG2009	ANG2009	ANG2361	ANG2361	
	20	Mirror Frame V	ANG2392	ANG2373	ANG2374	ANG2373	ANG2374	
	21	Mirror	AMR3113	AMR3188	AMR3189	AMR3188	AMR3189	
NSP	22	Upper Screen Metal B	ANG2002	ANG2002	ANG2002	ANG2360	ANG2360	
NSP	23	Under Screen Metal A	ANG2003	ANG2003	ANG2003	ANG2361	ANG2361	
	24	Mirror Frame H	ANG2391	ANG2371	ANG2372	ANG2371	ANG2372	
NSP	25	Upper Screen Metal A	ANG2001	ANG2001	ANG2001	ANG2359	ANG2359	
	26	Screen Frame Assy	AAP1636	AAP1635	AAP1634	AAP1607	AAP1608	
	27	Screen Holder Low	AAP1601	AAP1621	AAP1622	AAP1609	AAP1610	

## 2.4 REAR VIEW (1/2)



#### (1) REAR VIEW (1/2) PARTS LIST

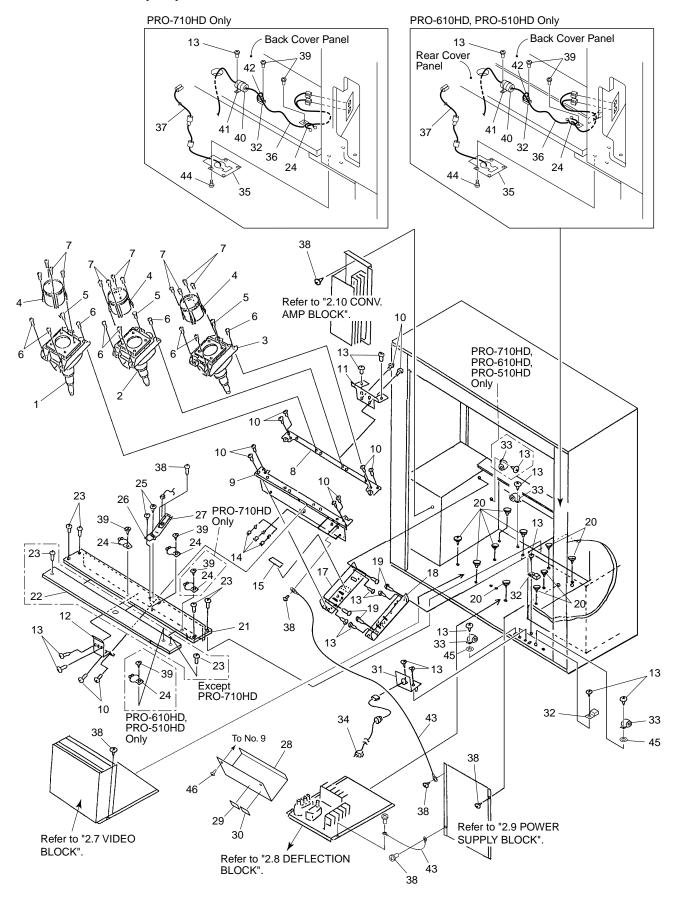
Mark	No.	Description	Part No.
	1	Mirror Case 51	AME2296
	2	Screw	ABA1240
	3	Screw	PYC40T140FZB
	4	Rear Cover	See Contrast table (2)
	5	Blind Sheet	See Contrast table (2)
	6		
	7	Screw	ABZ30P100FZK
	8	Screw	ABA1269
NSP	9	Cabinet Wire Holder	AEC1263
	10	Screen Cushion	See Contrast table (2)
	11	Rear Cover (DTV)	See Contrast table (2)
	12	Rear Cover Sheet	See Contrast table (2)
	13	Screw	PMB40P250FZB

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description		Part No.						
IVIAIK	NO.	Symbol and Description	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	Remarks		
	4	Rear Cover	AMM2929	AMM2999	AMM2999	AMM2999	AMM2999			
	5	Blind Sheet	AEC1622	AEC1622	AEC1622	Not used	Not used			
	10	Screen Cushion	AEC1778	AEC1830	AEC1831	AEC1845	AEC1844			
	11	Rear Cover (DTV)	AMM3000	AMM3000	AMM3000	Not used	Not used			
	12	Rear Cover Sheet	AMR3190	AMR3190	AMR3190	Not used	Not used			

#### 2.5 REAR VIEW (2/2)



#### (1) REAR VIEW (2/2) PARTS LIST

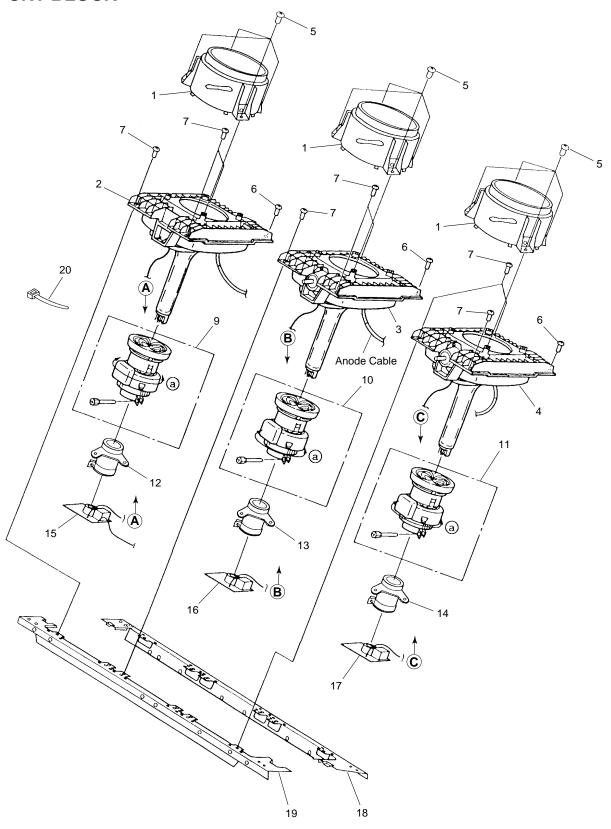
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
$\stackrel{\wedge}{\Longrightarrow}$	1	CRT Service Assy B	See Contrast table (2)	NSP	26	Fixing Metal	ANG1958
☆	2	CRT Service Assy G	See Contrast table (2)		27	SR Assy	AWZ6465
$\stackrel{\wedge}{\leadsto}$	3	CRT Service Assy R	See Contrast table (2)	NSP	28	Tray	AMR2936
$\stackrel{\wedge}{\Longrightarrow}$	4	Lens Assy	See Contrast table (2)	NSP	29	Solder Warning Label	AAX2672
	5	Screw	FBT40P120FZK	NSP	30	Warning Label (KC)	AAX1797
	6	Screw	ABA1168	NSP	31	AC Cord Holder A	ANG2307
	7	Screw	AMZ40P080FZK	NSP	32	Bind Holder	AEC1785
NSP	8	CRT Front Frame	See Contrast table (2)		33	Ferrite Core	ATX1040
NSP	9	CRT Rear Frame	See Contrast table (2)	$\triangle$	34	AC Power Cord	ADG1180
	10	Screw	ACZ40P080FMC	NSP	35	AC Cord Holder B	See Contrast table (2)
NSP	11	CRT Front Holder	ANG2118		36	Wire Harness C (J14)	See Contrast table (2)
NSP	12	CRT Rear Holder	ANG2119	Æ	37	AC Power Cord	See Contrast table (2)
	13	Screw	ABA1240		38	Screw	BBZ30P080FZK
	14	Cord Holder	AEC1257		39	Screw	ABA1271
NSP	15	Tube Label	AAX2497		40	Ferrite Core	See Contrast table (2)
	16			NSP	41	Nylon Clamp 18N	AEC1789
NSP	17	CRT Stand Holder R	ANA1497		42	Nylon Binder	AEC-093
NSP	18	CRT Stand Holder L	ANA1496		43	1P Lead Wire (J1)	ADX2505
	19	Screw	PMB50P250FZB		44	Screw	PMB40P250FZB
	20	Special Screw	ABA1121		45	Nylon Washer	AEC1863
NSP	21	Back Cover Panel	See Contrast table (2)		46	Screw	ABZ30P100FZK
	22	Rear Cover Panel	See Contrast table (2)				
	23	Screw	ABA1241				
NSP	24	Cabinet Wire Holder	See Contrast table (2)				
	25	Screw	ABA1279				

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Maule	N.	Combal and Description		Damada				
Mark No.	No.	Symbol and Description	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	Remarks
☆	1	CRT Service Assy B	AWY1415	AWY1422	AWY1418	AWY1420	AWY1418	
$\Rightarrow$	2	CRT Service Assy G	AWY1413	AWY1413	AWY1417	AWY1417	AWY1417	
$\Rightarrow$	3	CRT Service Assy R	AWY1414	AWY1421	AWY1416	AWY1419	AWY1416	
$\stackrel{\wedge}{\Longrightarrow}$	4	Lens Assy	AMR3121	AMR3183	AMR2833	AMR2833	AMR2833	
NSP	8	CRT Front Frame	ANA1541	ANA1613	ANA1614	ANA1613	ANA1614	
NSP	9	CRT Rear Frame	ANA1542	ANA1615	ANA1616	ANA1615	ANA1616	
NSP	21	Back Cover Panel	AMM3079	AMM3001	AMM3002	AMM3001	AMM3002	
	22	Rear Cover Panel	Not used	AMM3010	AMM3010	AMM3010	AMM3010	
NSP	24	Cabinet Wire Holder	AEC1856	AEC1263	AEC1263	AEC1263	AEC1263	
NSP	35	AC Cord Holder B	ANG2311	ANG2311	ANG2311	Not used	Not used	
	36	Wire Harness C (J14)	ADX2491	ADX2491	ADX2491	Not used	Not used	
<u>^</u>	37	AC Power Cord	ADG1185	ADG1185	ADG1185	Not used	Not used	
	40	Ferrite Core (L9)	ATX1031	ATX1031	ATX1031	Not used	Not used	

### 2.6 CRT BLOCK



#### (1) CRT BLOCK PARTS LIST

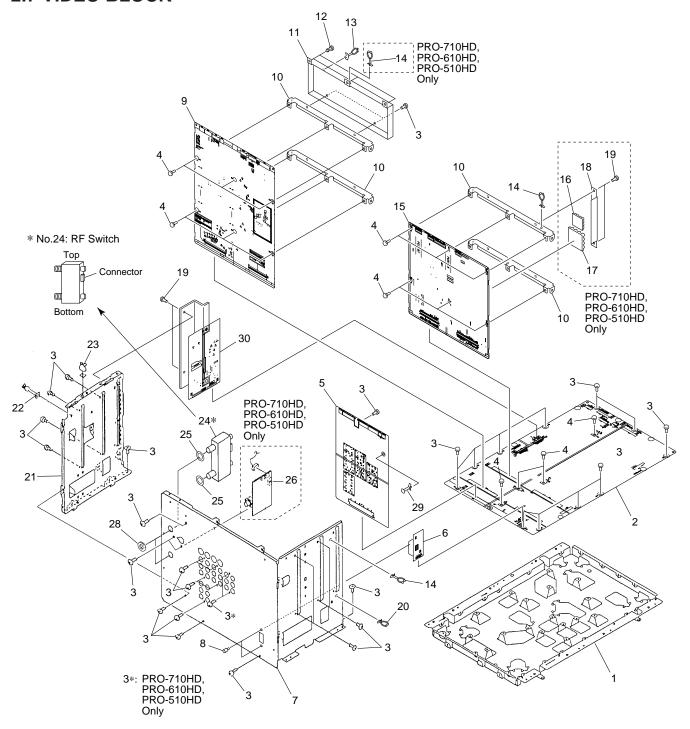
Mark	rk No. Description		Part No.
_ ☆ ☆ ☆ ☆	1 2 3 4 5	Lens Assy CRT Service Assy R CRT Service Assy G CRT Service Assy B Screw	See Contrast table (2) See Contrast table (2) See Contrast table (2) See Contrast table (2) AMZ40P080FZK
<u>^</u>	6 7 8 9 10	Screw Screw Deflection Yoke (L1) Deflection Yoke (L2)	FBT40P120FZK ABA1168 ATL1136 ATL1136
<u>↑</u> <u>↑</u> <u>↑</u> <u>↑</u>	11 12 13 14 15	` ,	ATL1136 ATL1137 ATL1137 ATL1137 AWZ6457
NSP NSP	16 17 18 19 20	G. CRT DRIVE Assy B. CRT DRIVE Assy CRT Rear Frame CRT Front Frame Nylon Binder	AWZ6458 AWZ6459 See Contrast table (2) See Contrast table (2) AEC-093

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Mark	No.	Symbol and Description		Remarks				
Iviark	NO.	Symbol and Description	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	Remarks
$\Rightarrow$	1	Lens Assy	AMR3121	AMR3183	AMR2833	AMR2833	AMR2833	
☆	2	CRT Service Assy R	AWY1414	AWY1421	AWY1416	AWY1419	AWY1416	
☆	3	CRT Service Assy G	AWY1413	AWY1413	AWY1417	AWY1417	AWY1417	
☆	4	CRT Service Assy B	AWY1415	AWY1422	AWY1418	AWY1420	AWY1418	
NSP	18	CRT Rear Frame	ANA1542	ANA1615	ANA1616	ANA1615	ANA1616	
NSP	19	CRT Front Frame	ANA1541	ANA1613	ANA1614	ANA1613	ANA1614	

#### 2.7 VIDEO BLOCK



#### (1) VIDEO BLOCK PARTS LIST

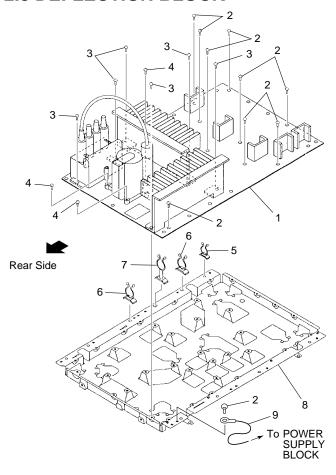
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
NSP	1	Video Chassis	ANA1584		26	BNC Assy	See Contrast table (2)
	2	VIDEO Assy	See Contrast table (2)		27	Screw	See Contrast table (2)
	3	Screw	BBZ30P080FZK		28	Nut	BBN1005
	4	Screw	BBZ30P080FCU	NSP	29	Mini Card Spacer	AEC1835
	5	AV I/O Assy	See Contrast table (2)		30	AUDIO Assy	See Contrast table (2)
	6	RGB SW Assy	AWZ6468				
	7	Rear Panel	See Contrast table (2)				
	8	Hexagon Head Screw	BBA1051				
	9	SIGNAL Assy	See Contrast table (2)				
NSP	10	PCB Sub Frame	ANG2304				
	11	Signal Shield	ANK1629				
	12	Rivet	AEC-441				
NSP	13	Cable Clip D3S	AEC1782				
	14	Cable Clip	AEC1806				
	15	SUB VIDEO Service Assy	See Contrast table (2)				
NSP	16	IP Heat Sink S	See Contrast table (2)				
NSP	17	IP Heat Sink M	See Contrast table (2)				
	18	IP Heat Sink Holder	See Contrast table (2)				
	19	Screw	ABZ30P100FZK				
NSP	20	Cable Clip D3M	AEC1783				
	21	PCB Side Holder	ANG2305				
NSP	22	Lead Clamper M	AEC1611				
NSP	23	Cable Clip A	AEC1325				
	24	RF Switch	AXF1088				
	25	Washer	WAXOF160N100				

#### (2) CONTRAST TABLE

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5 and SD-532HD5 are constructed the same except for the following:

Moule	No.	Complete and Description		Domostro				
Mark	NO.	Symbol and Description	PRO-710HD	PRO-610HD	PRO-510HD	SD-582HD5	SD-532HD5	Remarks
	2	VIDEO Assy	AWV1799	AWV1799	AWV1799	AWV1804	AWV1804	
	5	AV I/O Assy	AWV1802	AWV1802	AWV1802	AWV1807	AWV1807	
	7	Rear Panel	ANC2336	ANC2336	ANC2336	ANC2337	ANC2337	
	9	SIGNAL Assy	AWV1866	AWV1866	AWV1866	AWV1870	AWV1870	
	15	SUB VIDEO Service Assy	AWV1868	AWV1868	AWV1868	Not used	Not used	
	15	SUB VIDEO Assy	Not used	Not used	Not used	AWV1871	AWV1871	
NSP	16	IP Heat Sink S	ANH1572	ANH1572	ANH1572	Not used	Not used	
NSP	17	IP Heat Sink M	ANH1571	ANH1571	ANH1571	Not used	Not used	
	18	IP Heat Sink Holder	AEC1850	AEC1850	AEC1850	Not used	Not used	
	26	BNC Assy	AWZ6464	AWZ6464	AWZ6464	Not used	Not used	
	27	Screw	BCZ30P080FZK	BCZ30P080FZK	BCZ30P080FZK	Not used	Not used	
	30	AUDIO Assy	AWZ6472	AWZ6472	AWZ6472	AWZ6469	AWZ6469	

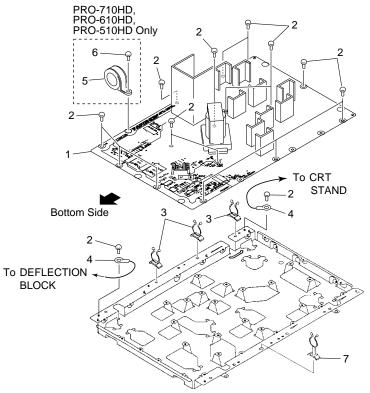
#### 2.8 DEFLECTION BLOCK



#### **■ DEFLECTION BLOCK PARTS LIST**

Mark	No.	Description	Part No.
$\Rightarrow$	1	DEFLECTION SERVICE Assy	AWV1809
	2	Screw	BBZ30P080FZK
	3	Screw	ABZ30P100FZK
	4	Screw	VBZ30P200FMC
NSP	5	Cable Clip D3S	AEC1782
NSP	6	Cable Clip D3M	AEC1783
NSP	7	Cable CliP	AEC1325
NSP	8	DF Chassis	ANA1583
	9	1P Laed Wire	ADX2505

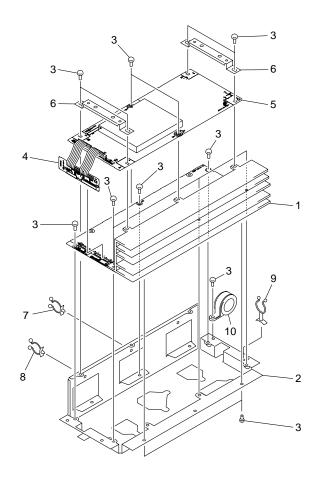
#### 2.9 POWER SUPPLY BLOCK



#### ■ POWER SUPPLY BLOCK PARTS LIST

Mark	No.	Description	Part No.			
	1	POWER SUPPLY Assy	AWV1872			
		(for PRO-710HD, PRO-610HD,	PRO-510HD)			
	1	POWER SUPPLY Assy	AWV1869			
		(for SD-582HD5, SD-532HD5/KUXC/CA)				
	1	POWER SUPPLY Assy	AWV1873			
		(for SD-532HD5/KBXC)				
	2	Screw	BBZ30P080FZK			
NSP	3	Cable Clip D3M	AEC1783			
	4	1P Laed Wire	ADX2505			
	5	Ferrite Core	ATX1040			
		(PRO-710HD, PRO-610HD, PR	O-510HD only)			
	6	Screw	ABZ30P100FZK			
		(PRO-710HD, PRO-610HD, PRO-510HD only)				

### 2.10 CONV. AMP BLOCK

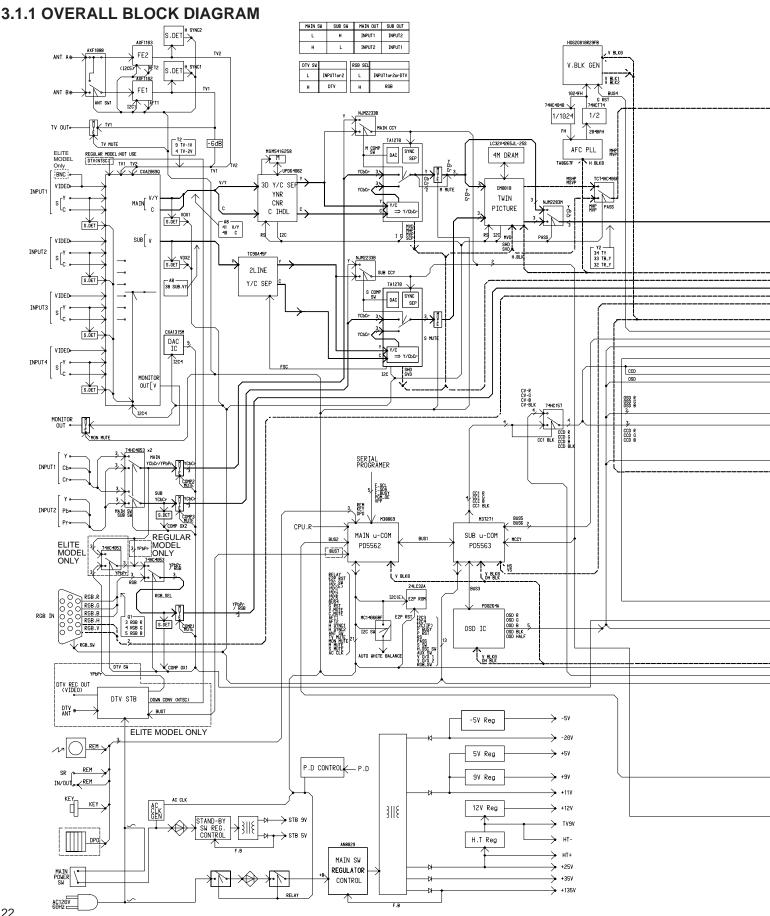


#### **■ CONV. AMP BLOCK PARTS LIST**

Mark	No.	Description	Part No.
	1	CONV. AMP Assy	AWZ6456
NSP	2	CONV. Chassis	ANA1619
	3	Screw	ABZ30P100FMC
	4	CONNECTOR Assy	AWZ6461
	5	DIGITAL CONV. ASSY	AWZ6460
NSP	6	CONV. Holder	ANG2365
NSP	7	Cable Clip D3M	AEC1783
NSP	8	Cable Clip D3S	AEC1782
	9	Cable Clip	AEC1806
	10	Ferrite Core	ATX1040

### 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

#### 3.1 BLOCK DIAGRAM



3

22

1

D

2

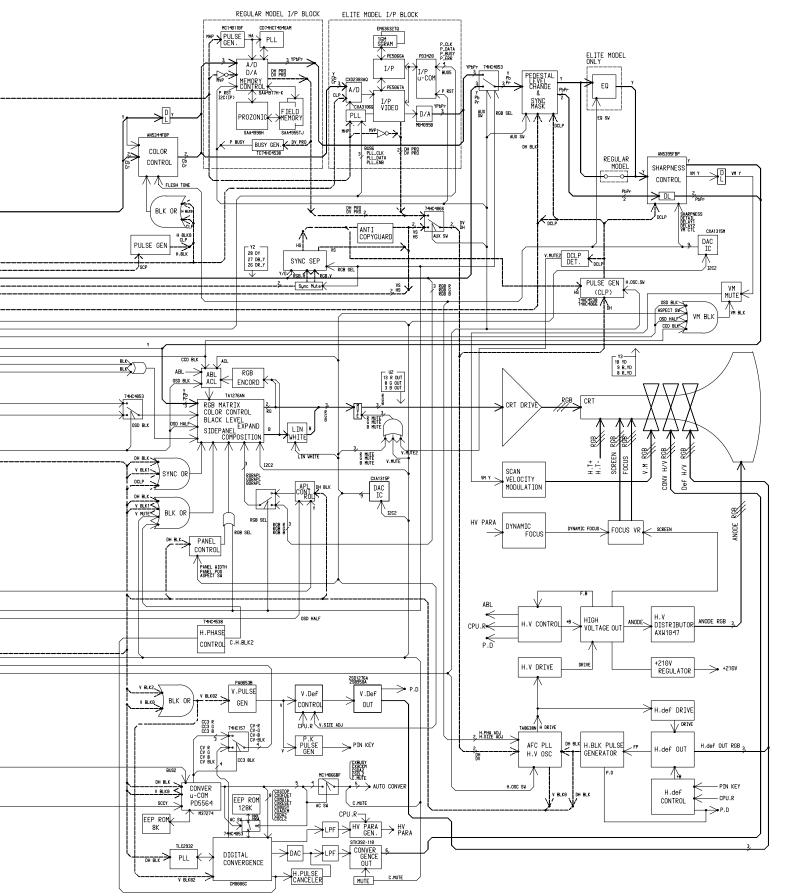
3

Note: Model names indicated by "ELITE" and "REGULAR" are as follows: ELITE: PRO-710HD, PRO-610HD and PRO-510HD, REGULAR: SD-582HD5 and SD-532HD5

6

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6

23

8

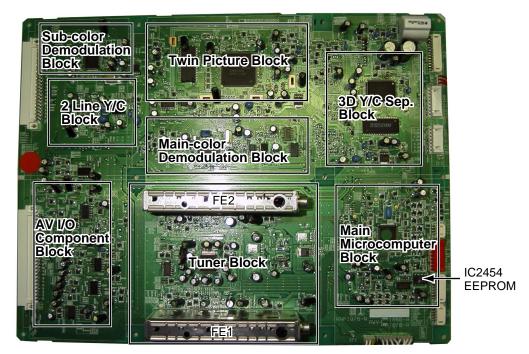
7

В

С

#### 3.1.3 SIGNAL BLOCK

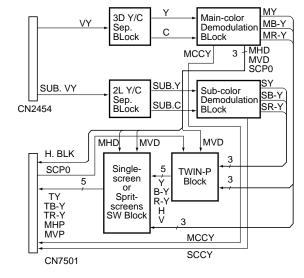
#### A SIGNAL ASSY

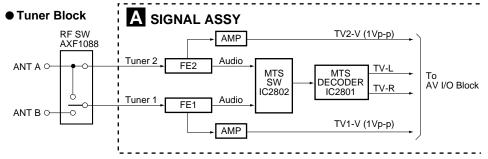


3

#### Video Block

В





Note:

Main picture is able to receive the ANT A and B.

Sub picuture is able to receive the ANT A only.

24

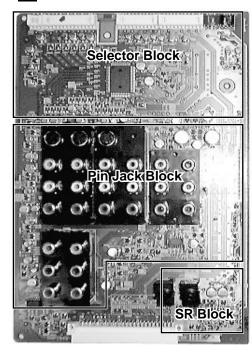
D

2

3

#### 3.1.4 AV I/O and AUDIO ASSYS

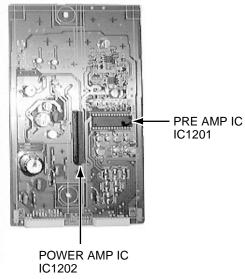
### B AV I/O ASSY

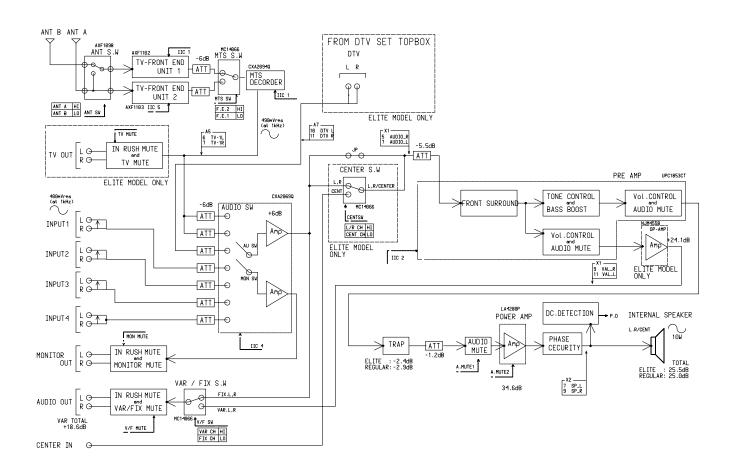


2

NOTE) The AUDIO Assy show the state without the heat sink.
Please attach the heat sink when you install the AUDIO Assy.

#### **G** AUDIO ASSY





2

1

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25

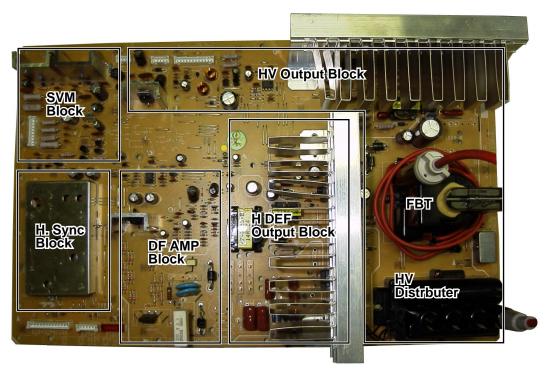
В

С

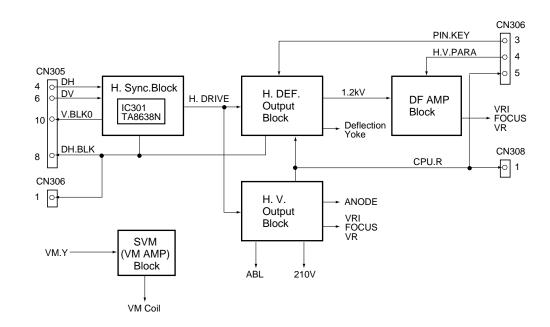
D

#### 3.1.8 DEFLECTION SERVICE ASSY

### **L** DEFLECTION SERVICE ASSY



3



26

В

С

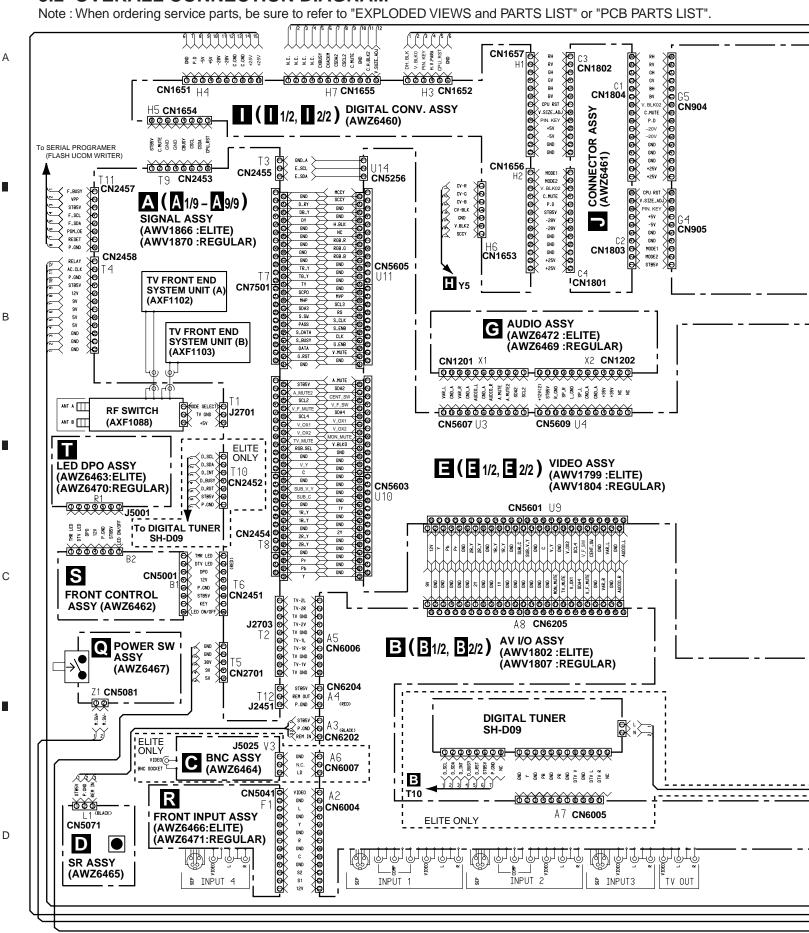
D

2

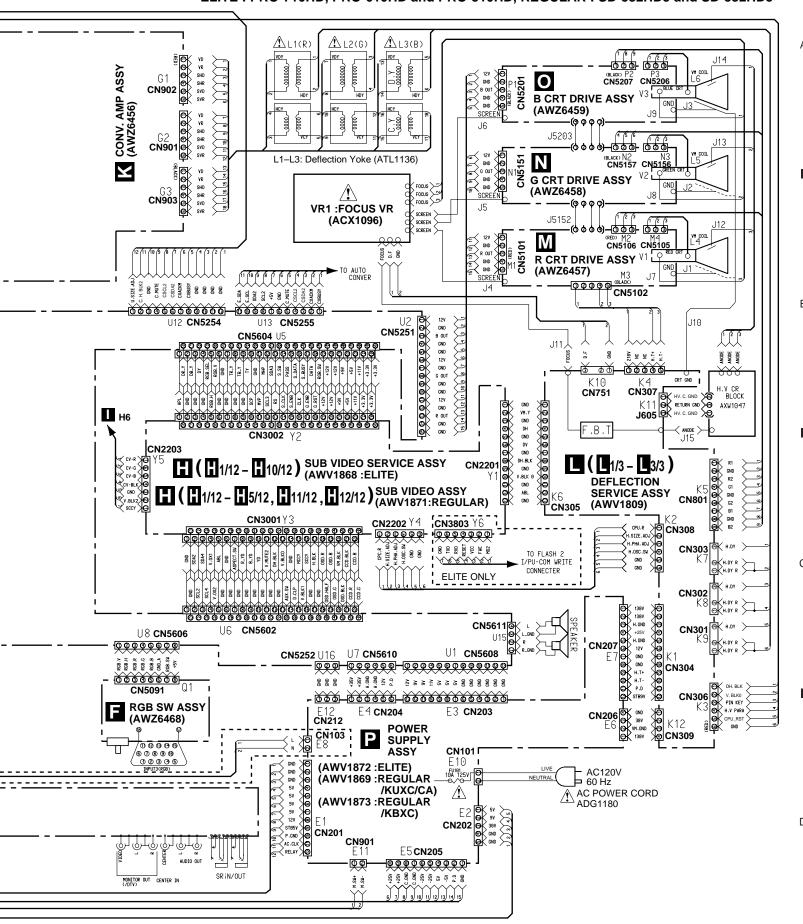
D

В

#### 3.2 OVERALL CONNECTION DIAGRAM

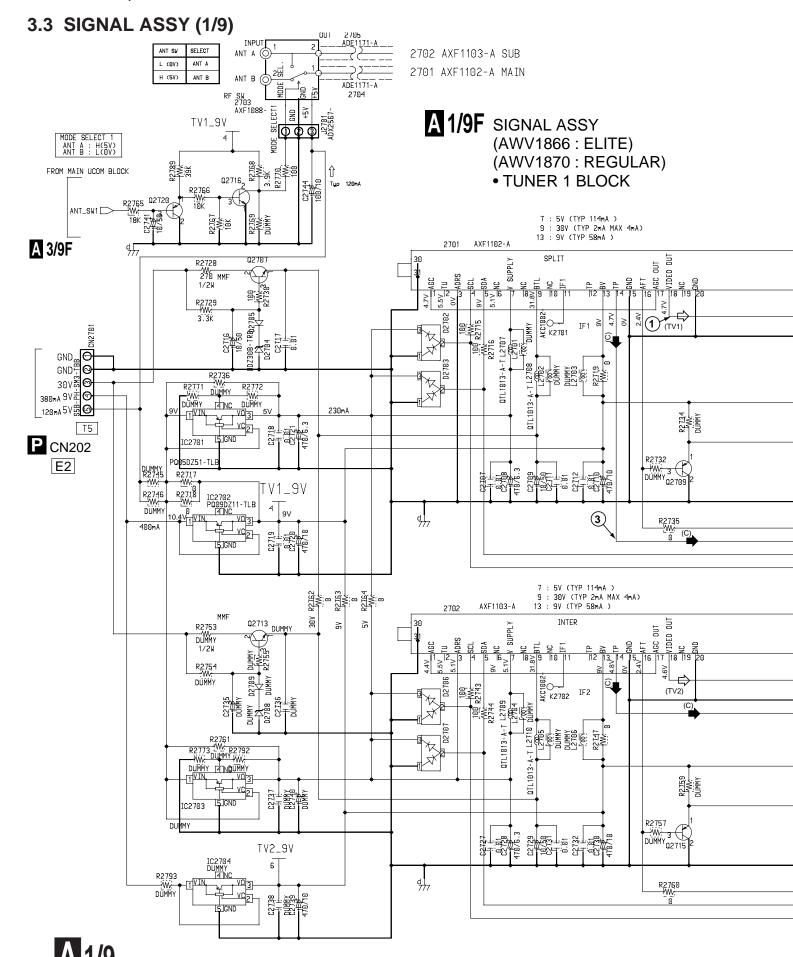


Note: Model names indicated by "ELITE" and "REGULAR" are as follows: ELITE: PRO-710HD, PRO-610HD and PRO-510HD, REGULAR: SD-582HD5 and SD-532HD5



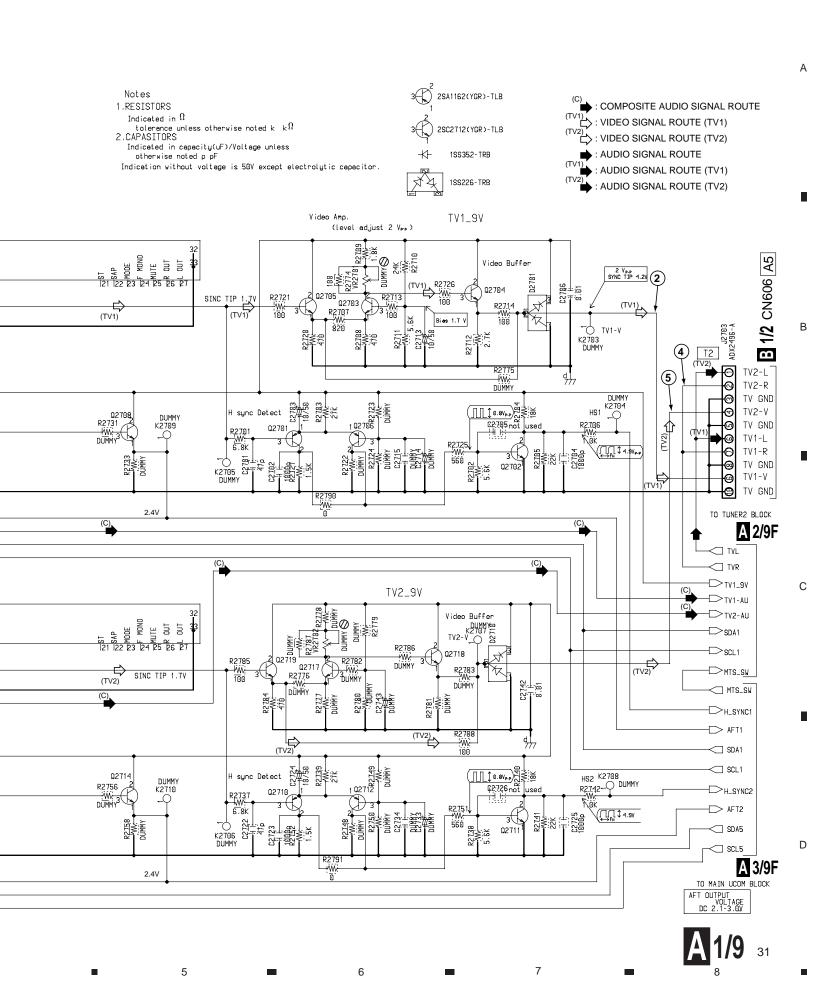
В

D



3

2



#### 3.4 SIGNAL ASSY (2/9)

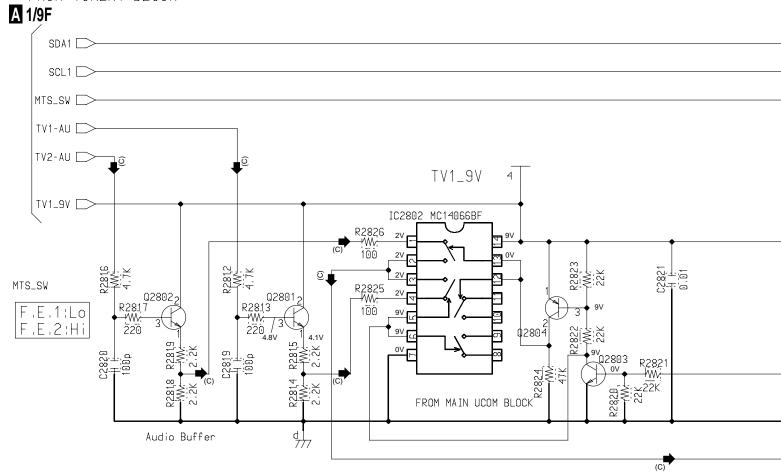
A 2/9F SIGNAL ASSY

(AWV1866 : ELITE) (AWV1870 : REGULAR) • TUNER 2 BLOCK

: COMPOSITE AUDIO SIGNAL ROUTE

: AUDIO SIGNAL ROUTE

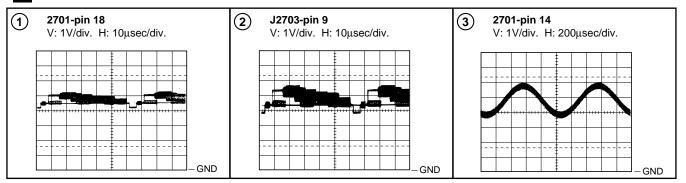
FROM TUNER1 BLOCK



## A 1/9

С

D

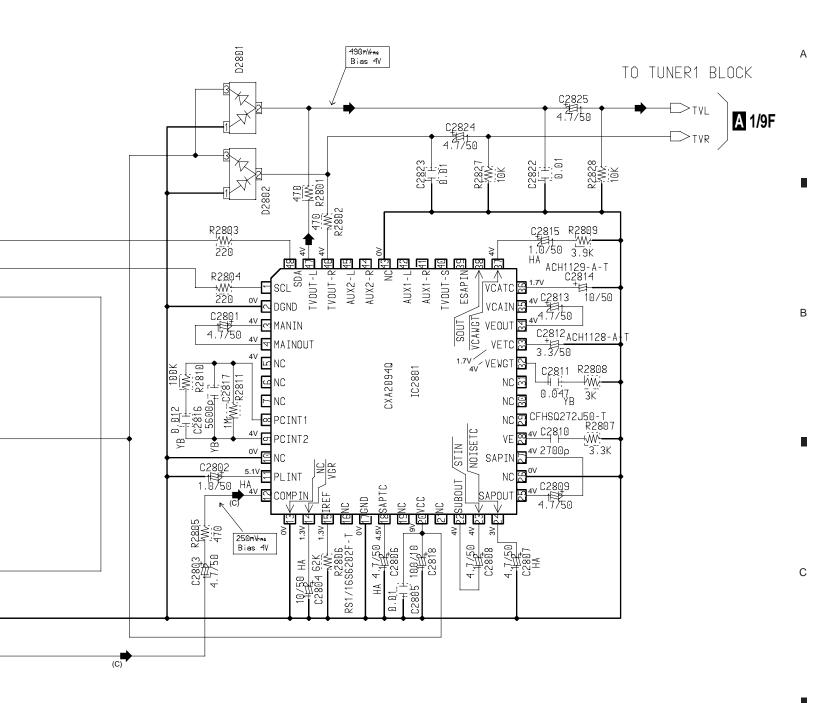


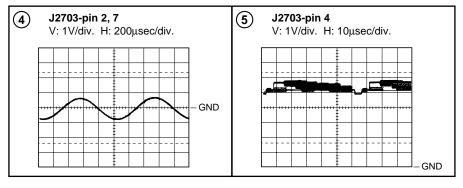
A 2/9

1 =

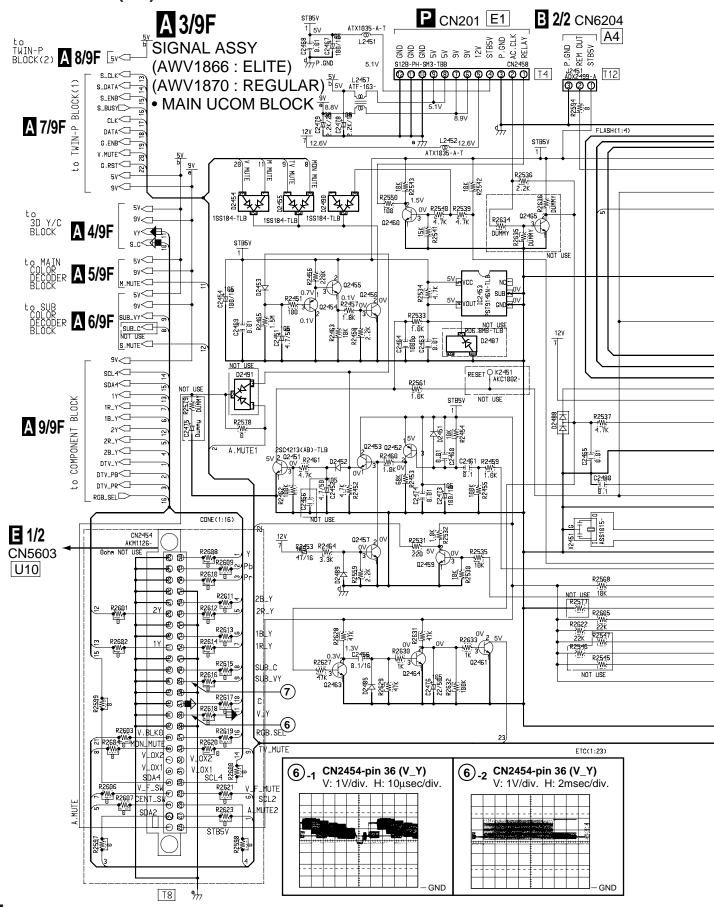
2

3





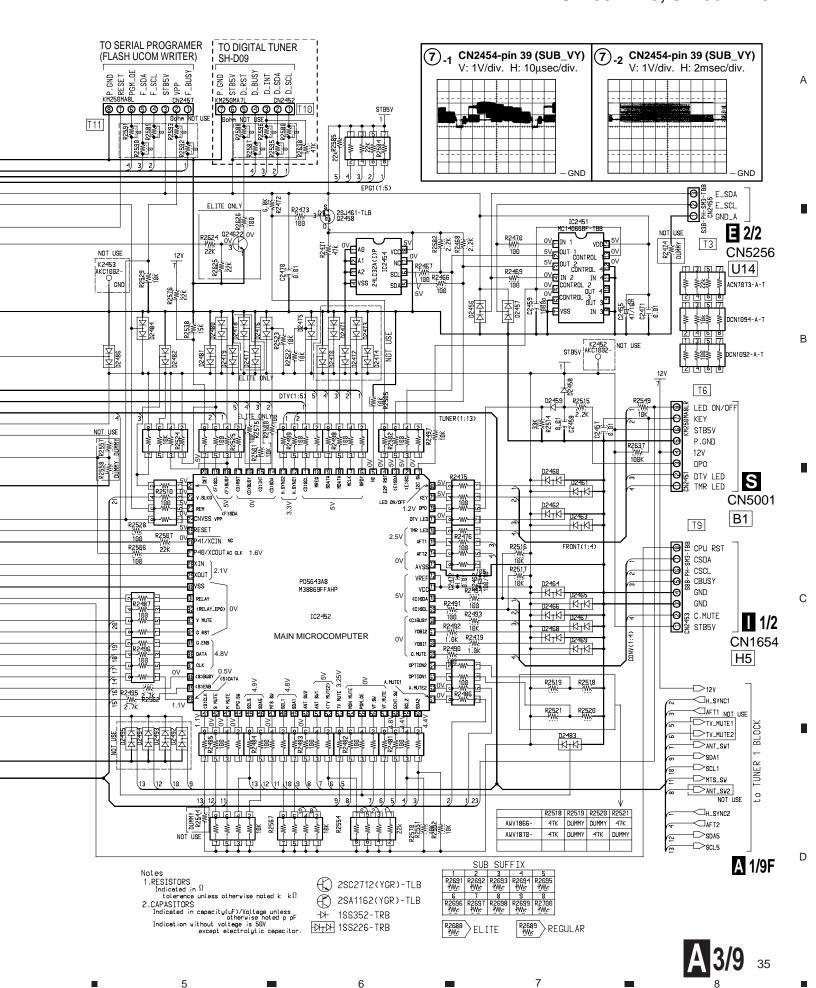
#### 3.5 SIGNAL ASSY (3/9)



3

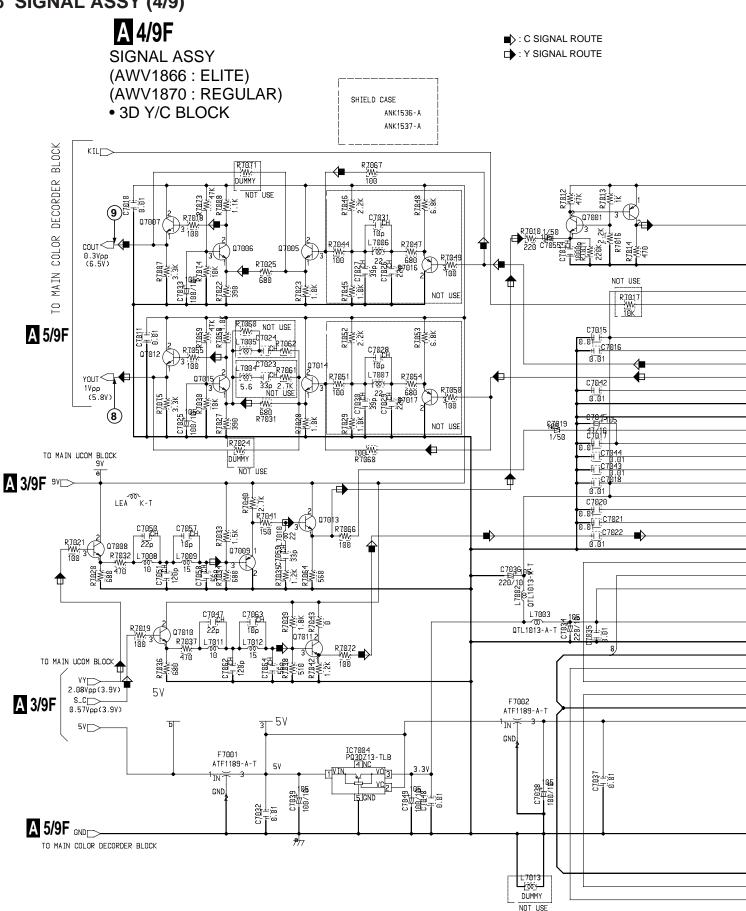
2

D



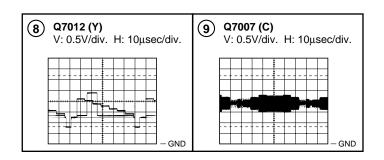
### 3.6 SIGNAL ASSY (4/9)

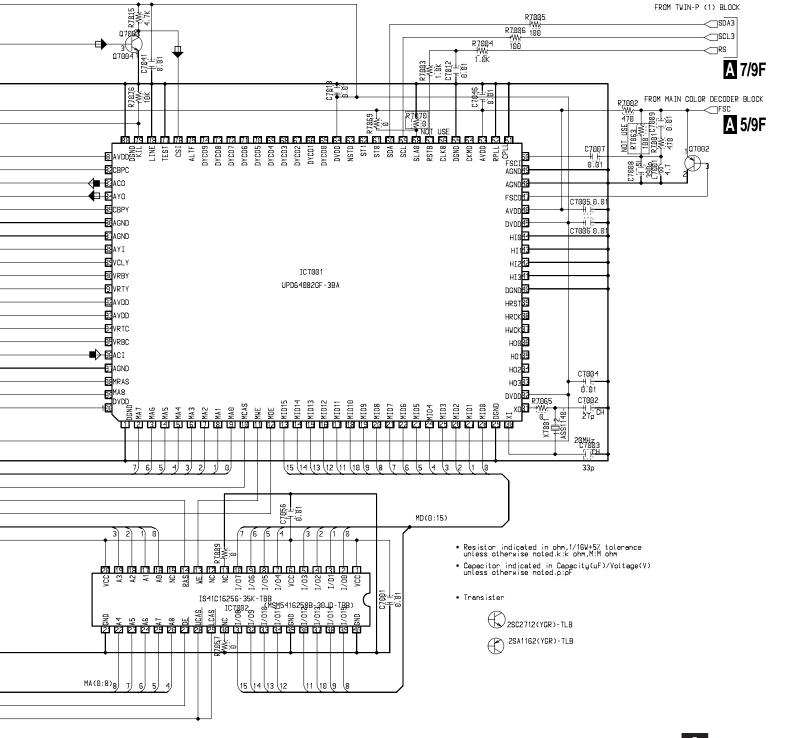
В



3

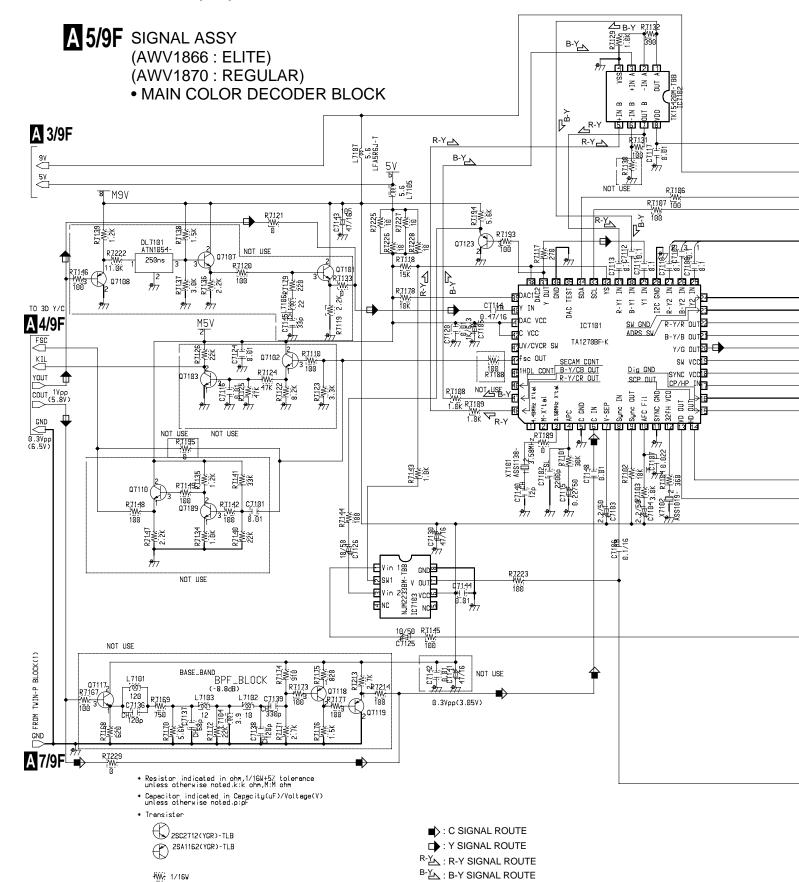
2





A 4/9 37

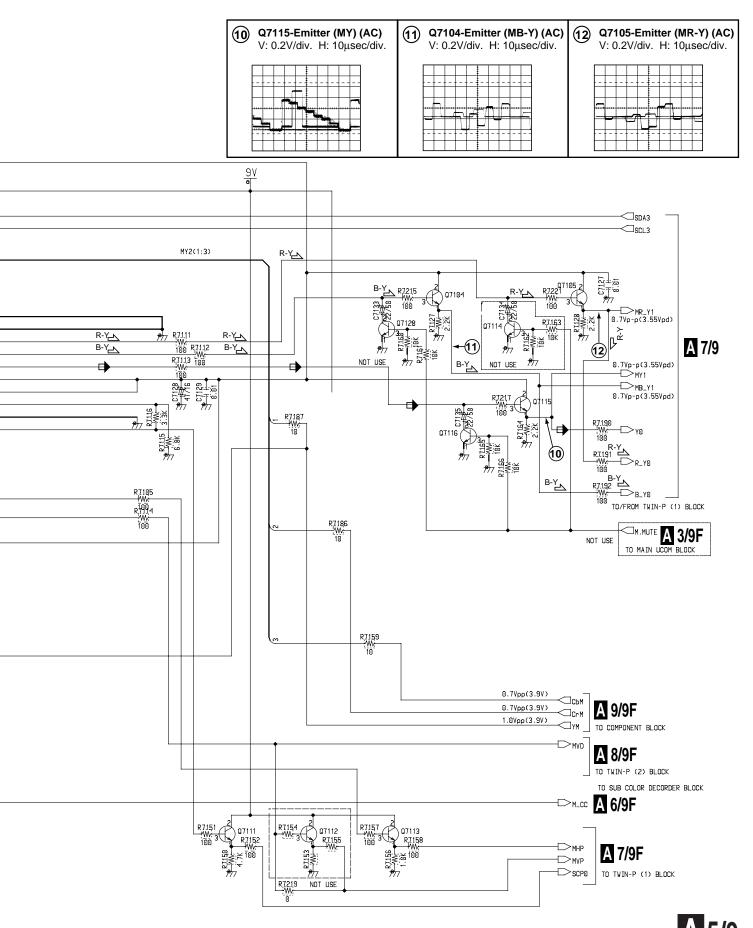
#### **3.7 SIGNAL ASSY (5/9)**



3

2

D



6

6

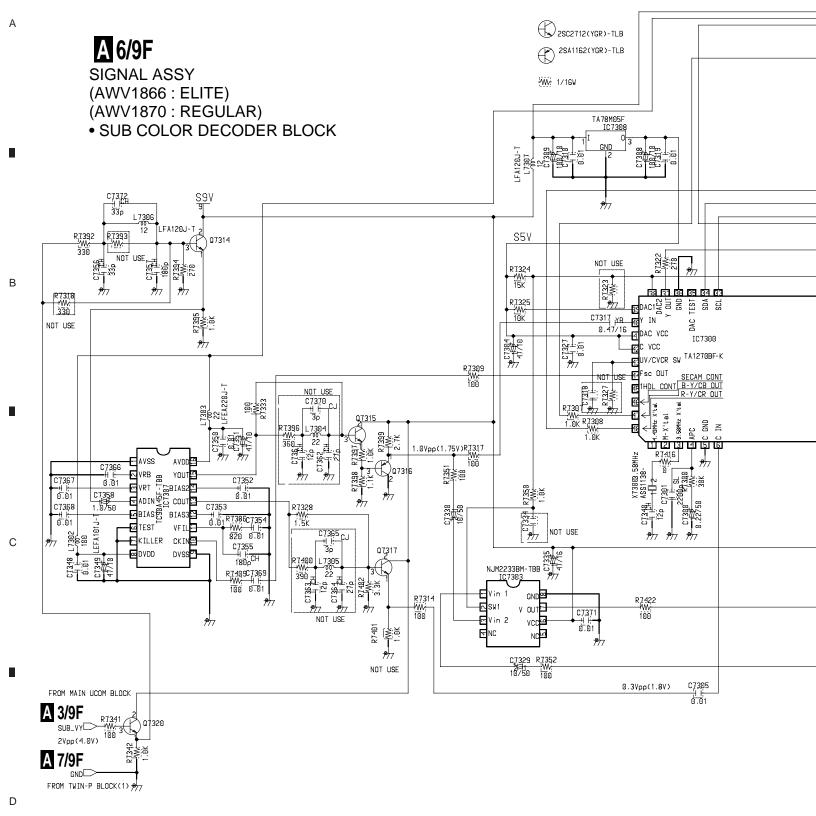
5

5

D

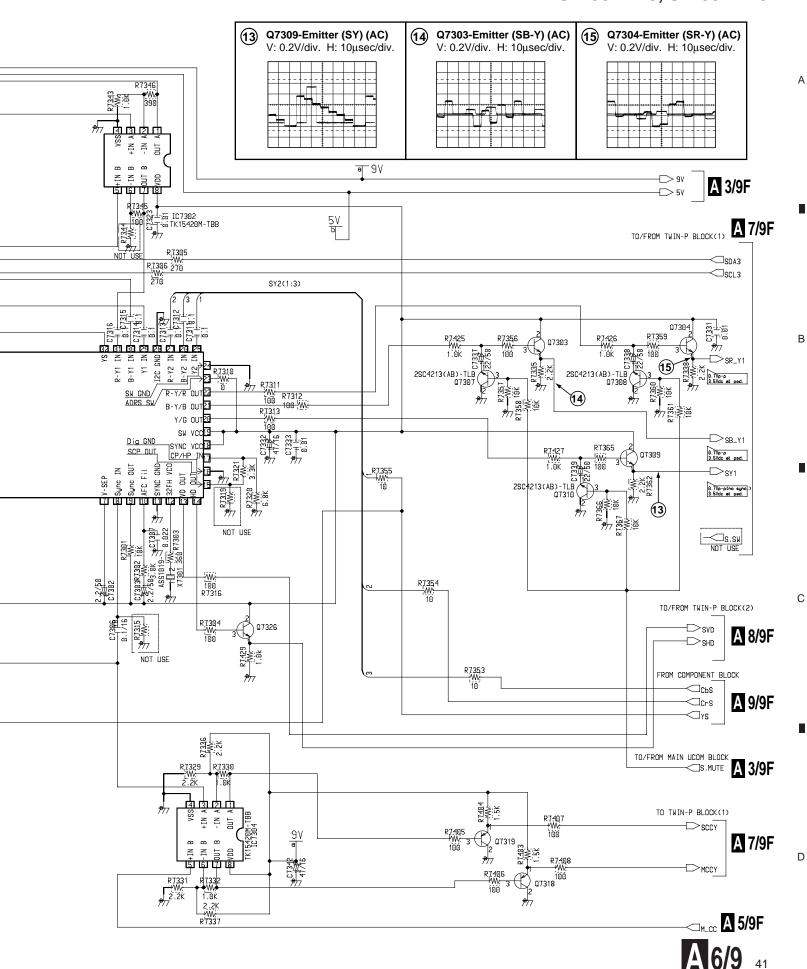
В

### **3.8 SIGNAL ASSY (6/9)**

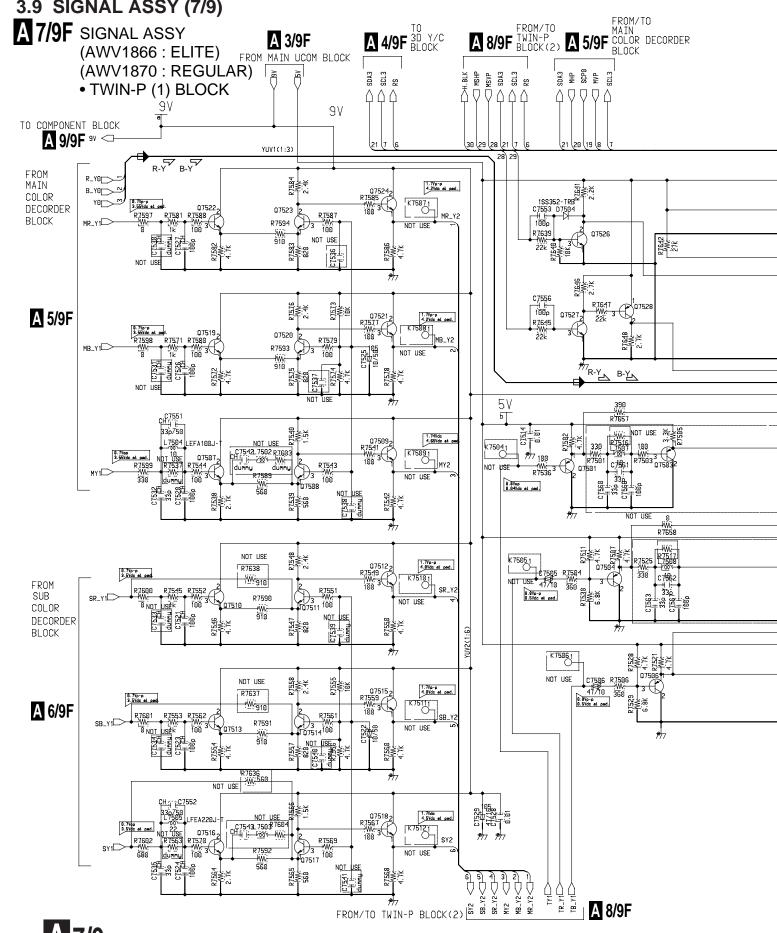


3

A 6/9

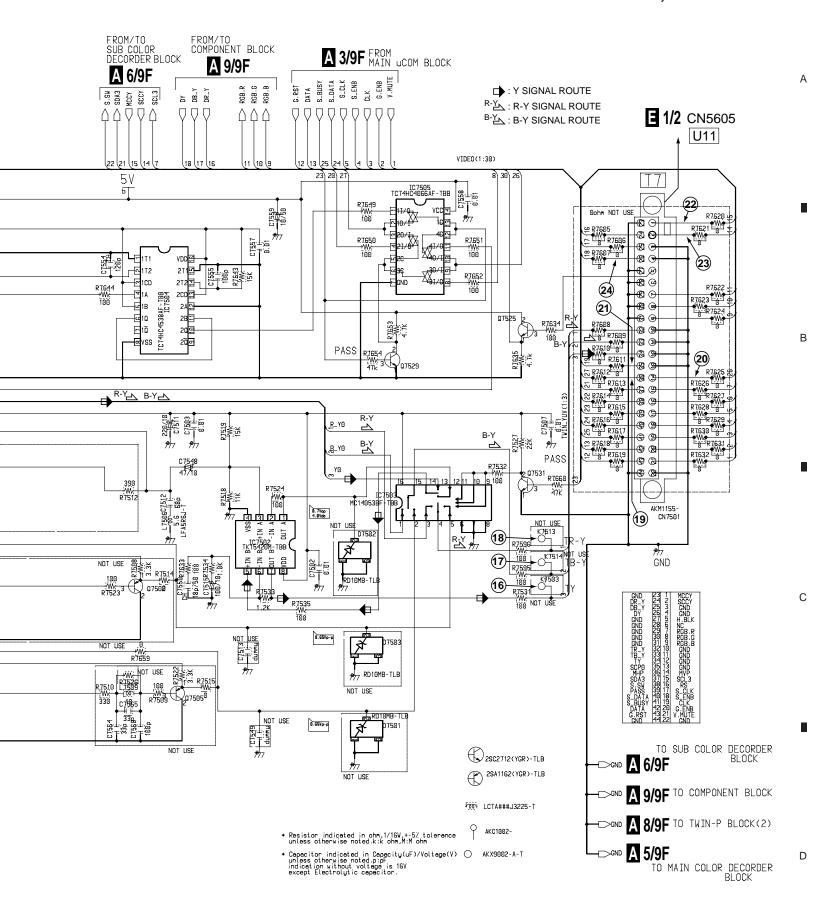


3.9 SIGNAL ASSY (7/9)



2

3

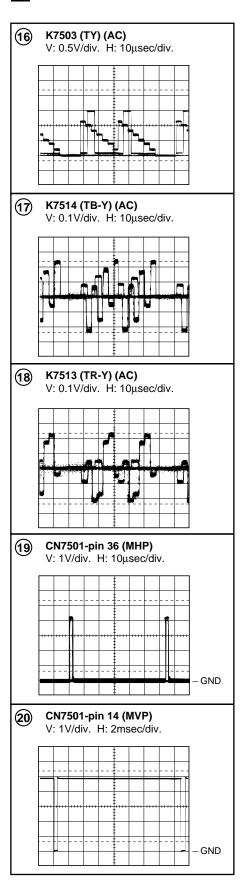


6

A 7/9 43

5

### A 7/9 SIGNAL ASSY (7/9)



Input signal Video signal : EIA full color-bar Picture quality: Standard Range :DC range (Unless otherwise noted) (21)-1 CN7501-pin 35 (SCP0) V: 2V/div. H: 10µsec/div. GND **21**-2 CN7501-pin 35 (SCP0) V: 2V/div. H: 2msec/div. GND 22 CN7501-pin 1 (MCCY) V: 0.5V/div. H: 10µsec/div. GND 23 CN7501-pin 2 (SCCY) V: 0.5V/div. H: 10µsec/div. -GND CN7501-pin 26 (DYOUT) 24) V: 1V/div. H: 10µsec/div. GND

### A 7/9 SIGNAL ASSY (7/9)

#### IC7502 (TK15420M)

Pin No.	Voltage (V)
1	3.8V at ped.
2	3.8V at ped.
3	3.8V at ped.
4	0
5	3.5V at ped.
6	3.5V at ped.
7	3.5V at ped.
8	9

#### IC7503 (MC14053BF)

Pin No.	Voltage (V)
1	3.65
2	3.65
3	3.65
4	3.65
5	3.65
6	0
7	0
8	0
9	0 (sprit-screens) 9.0 (single-screen)
10	0 (sprit-screens) 9.0 (single-screen)
11	0 (sprit-screens) 9.0 (single-screen)
12	3.65
13	3.65
14	3.65
15	3.65
16	9.0

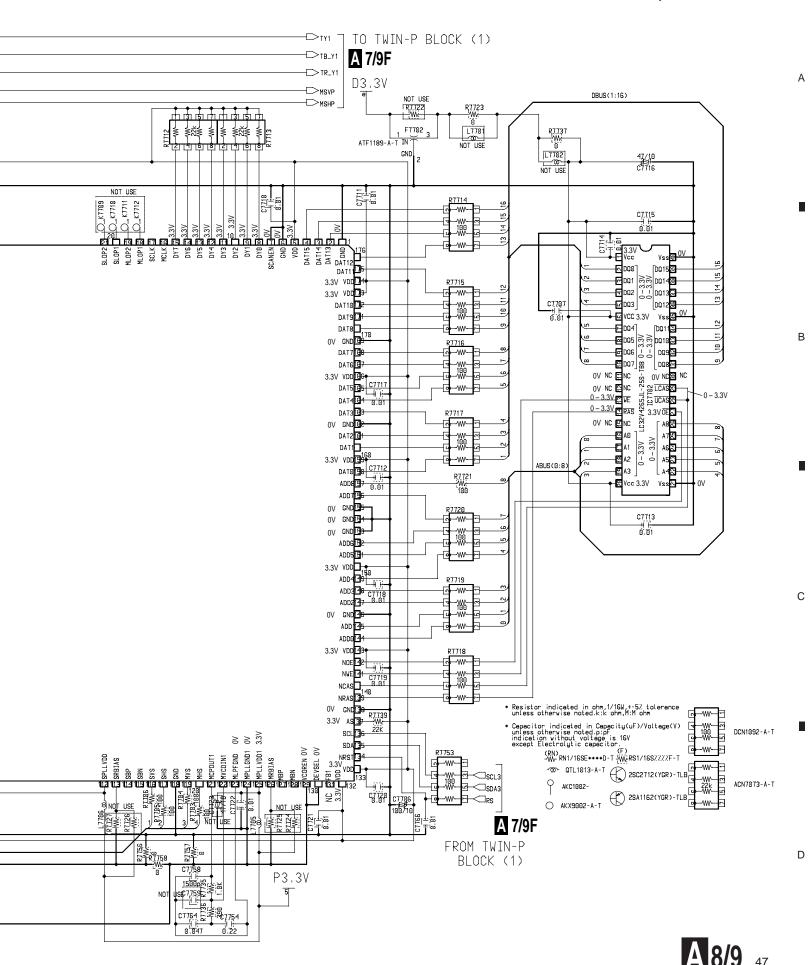
#### IC7504 (TC74HC4538AF)

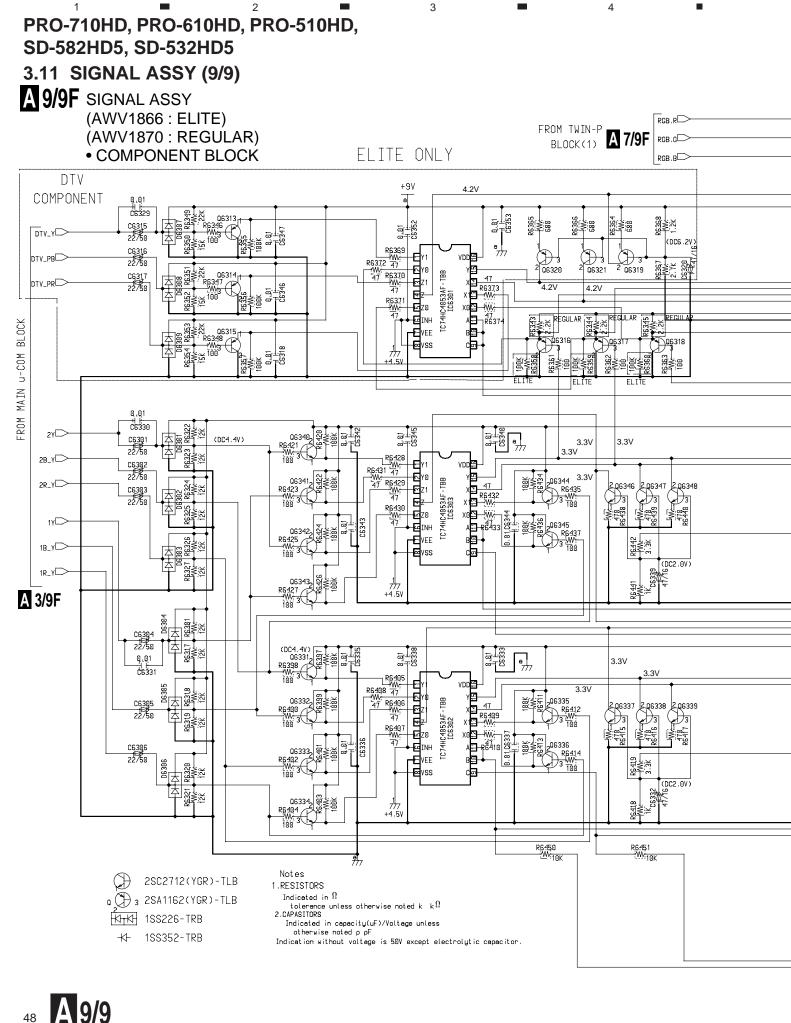
Pin No.	Voltage (V)
1	0
2	5
3	5
4	0 – 5
5	5
6	0 – 5
7	0 – 5
8	0
9	0 – 5
10	0 – 5
11	0 – 5
12	0
13	5
14	5
15	0
16	5

#### IC7505 (TC74HC4066AF)

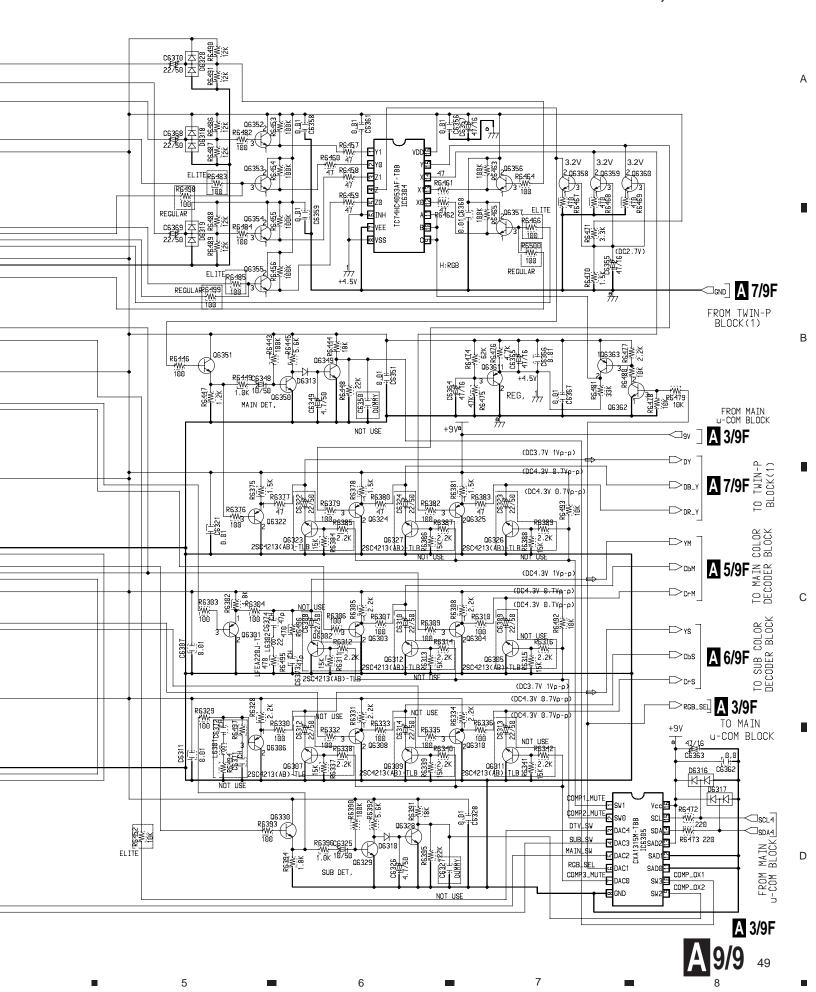
Pin No.	Voltage (V)
1	0 – 5
2	0 – 5
3	0 – 5
4	0 – 5
5	0 (sprit-screens) 4.6 (single-screen)
6	0 (sprit-screens) 4.6 (single-screen)
7	0
8	0 – 5
9	0 – 5
10	0 – 5
11	0 – 5
12	5 (sprit-screens) 0 (single-screen)
13	5 (sprit-screens) 0 (single-screen)
14	5

PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5, SD-532HD5 3.10 SIGNAL ASSY (8/9) 0.8Yop 0.04Ydc et ped 5 V b 5V 107701 4 NC P03DZ13-TLB a A3.3V 3,3V<sub>1</sub> F7701<sub>3</sub> A 3/9F 5V VC2 5V 0.8Vp-p 0.5Vdc et ped. D3:31 TN ≥ ATF1189-A-T GND 2 F7703<sub>3</sub> 0.8Vp-p 0.5Vdc et ped. ATF1189-A-T GND FROM TWIN-P A 7/9F GND COLOR GND **GND** A3.3V KIA431F-TLB R7730 R7729 10.9k 15.0kp D3.3A A 8/9F 16.9k DGND SIGNAL ASSY NOT DSE 0.01 (AWV1866 : ELITE) (AWV1870 : REGULAR) • TWIN-P (2) BLOCK FROM TWIN-P BLOCK (1) 1.7V MR\_Y2 - ASMVCLAMP 1.7V MCVREF128 1.7V 0.1 OV DZ AGND В 1.7Vp-p 4.2Vdc et ped. <u>-**Б3**</u>MUIN 1.7V MB\_Y2□ 0.067762 MCVREFL 0.6V ,**Б€**MYVREFH 2.8V \_ AGND 07,744 —**58**AVDD 3.3V 0.067746 -**5**5MYVREF16 0.8V C77691.0 MYVCLAMP 0.8V 1.7Vop 4.65Vdc et pec MY2 <u>-62</u>myIn 0.8V C77.40 0.0 C77.47 —<mark>63</mark>a∨dd 3.3V MYVREFL 0.6V CM0010AF C77481.0 ESCVREFH 2.8V 1.7Vp-p 4.8Vdc et ped. OV 58 AGND C7760 A 7/9F —**Б**SVIN 1.7V SR\_Y2 —**Б8**AVDD 3.3V SVCLAMP 1.7V SCVREF128 1.7V 0.1 OV ZAGND 1.7Vp-p 4.8Vdc et ped. SUIN 1.7V SB\_Y2□ 0.0C7752 —**∏**AVDD 3.3V SCVREFL 0.6V ESYVREFH 2.8V OV AGND —**78**AVDD 3.3V -<mark>∏</mark>SYVREF16 0.8V SYCLAMP 0.8V 1.7Vop 4.5Vdc at pad. SY2 BZSYIN 0.8V B3AVDD 3.3V BASYVREFL 0.6V NC BEINC 0V 0V 3.3V AVDD / TMODEO H.BLK□ TMODE 3 GND TD002 TD01 TD03 TD03 TD04 TD05 TD06 TD07 GND GND GND VDD 0.01 C7733 FROM SUB COLOR DECORDER BLOCK D A 6/9F SYDE P3.3V 1500q F7704 3 IN ATF1189-A-T A 5/9F MVD FROM MAIN COLOR DECORDER BLOCK 0.047 2 3 4

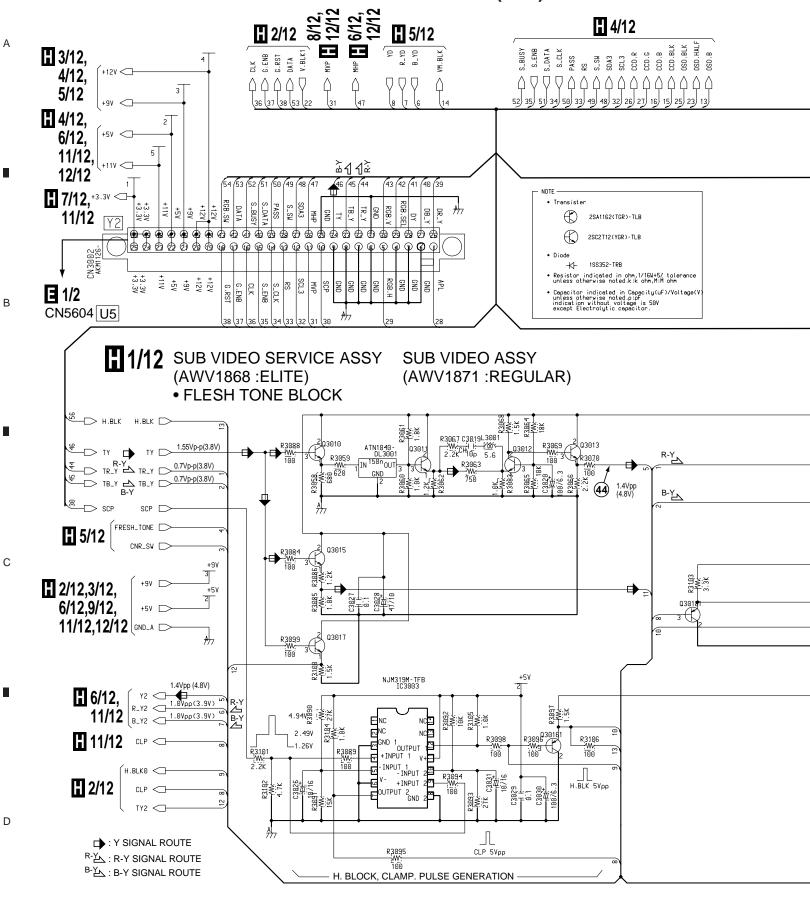




С



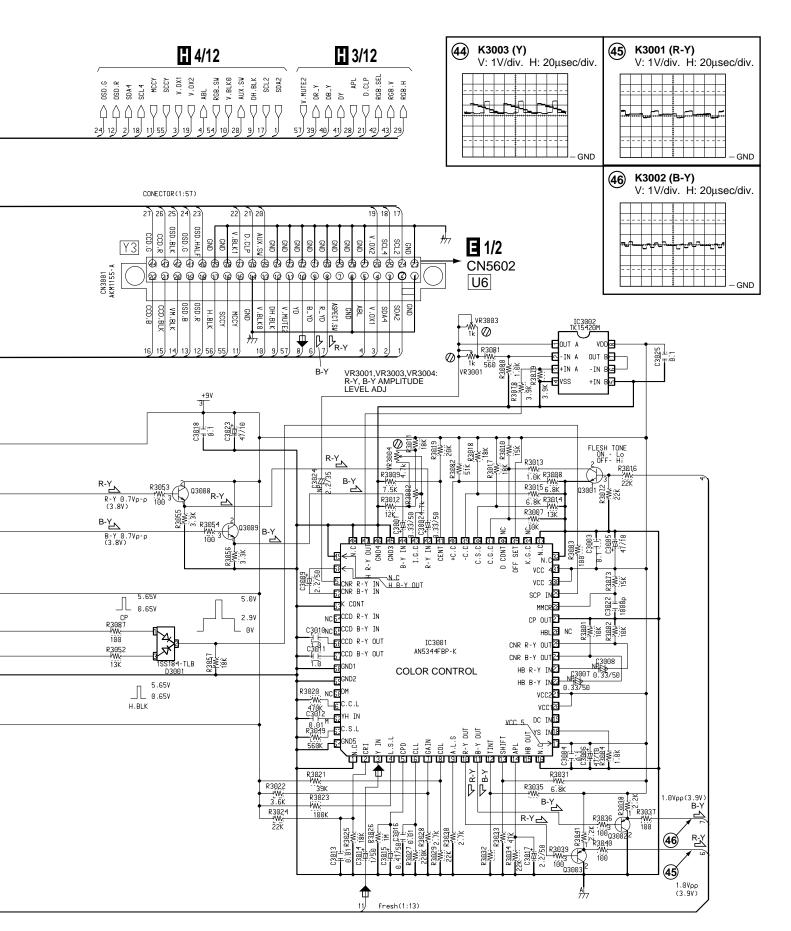
#### 3.17 SUB VIDEO SERVICE and SUB VIDEO ASSYS (1/12)



3

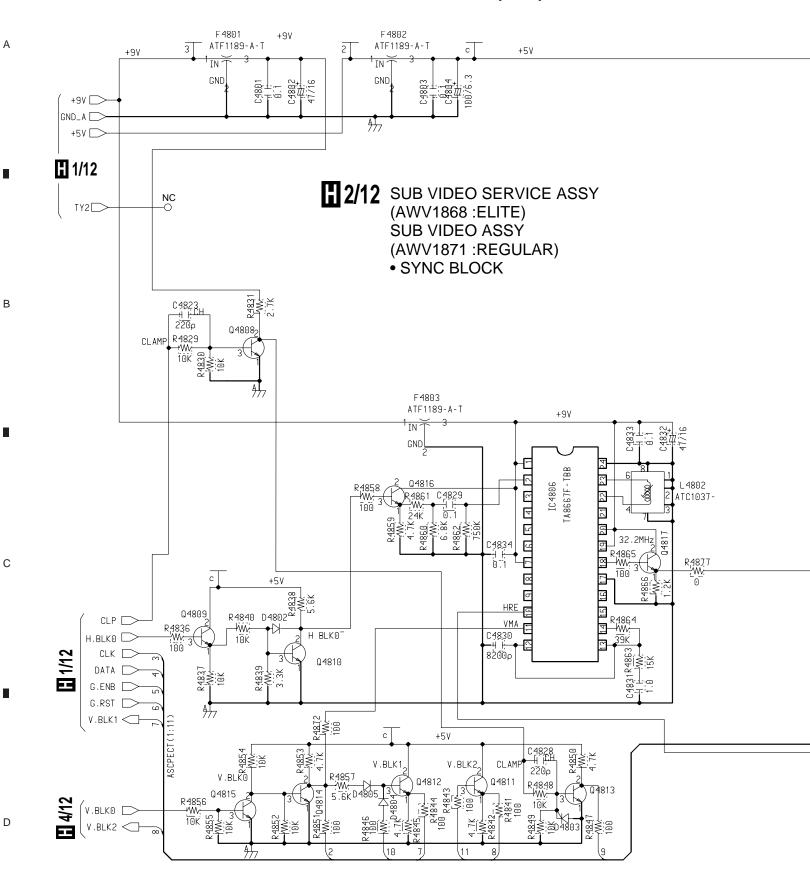
1/12

2



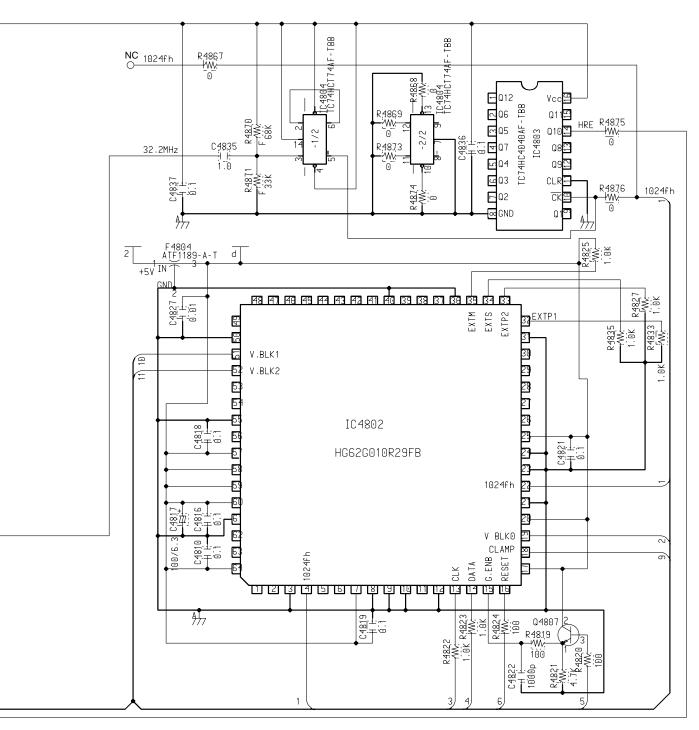
В

### 3.18 SUB VIDEO SERVICE and SUB VIDEO ASSYS (2/12)



3

3



6

 Resistor indicated in ohm,1/16W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm

5

5

• Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.p:pF indication without voltage is 50V except Electrolytic capacitor.



В

С

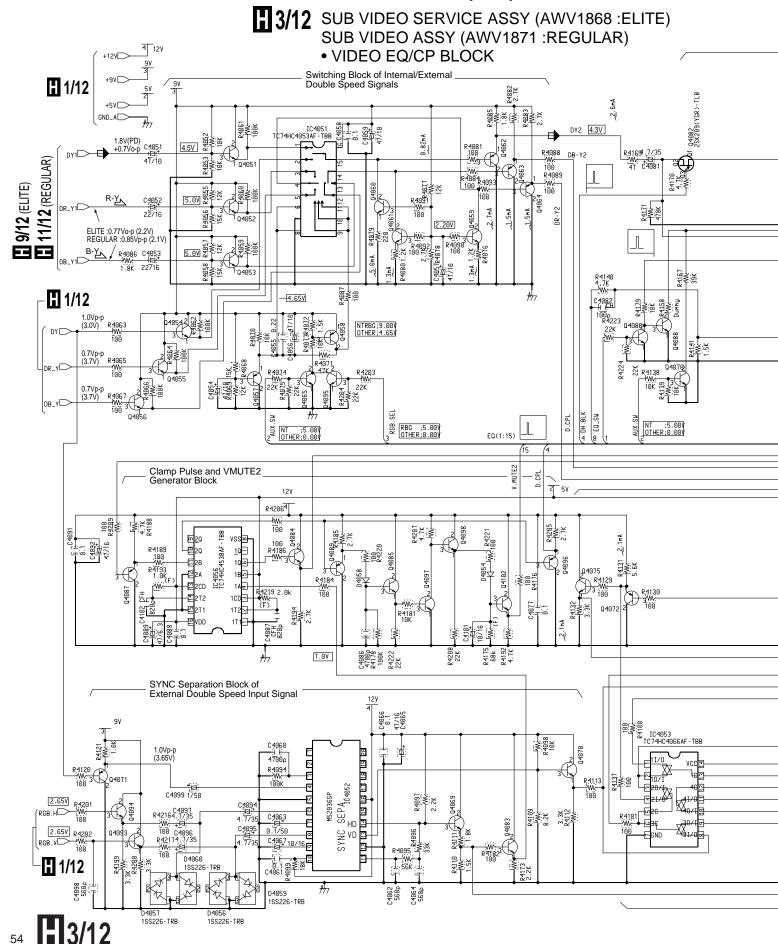
D

6

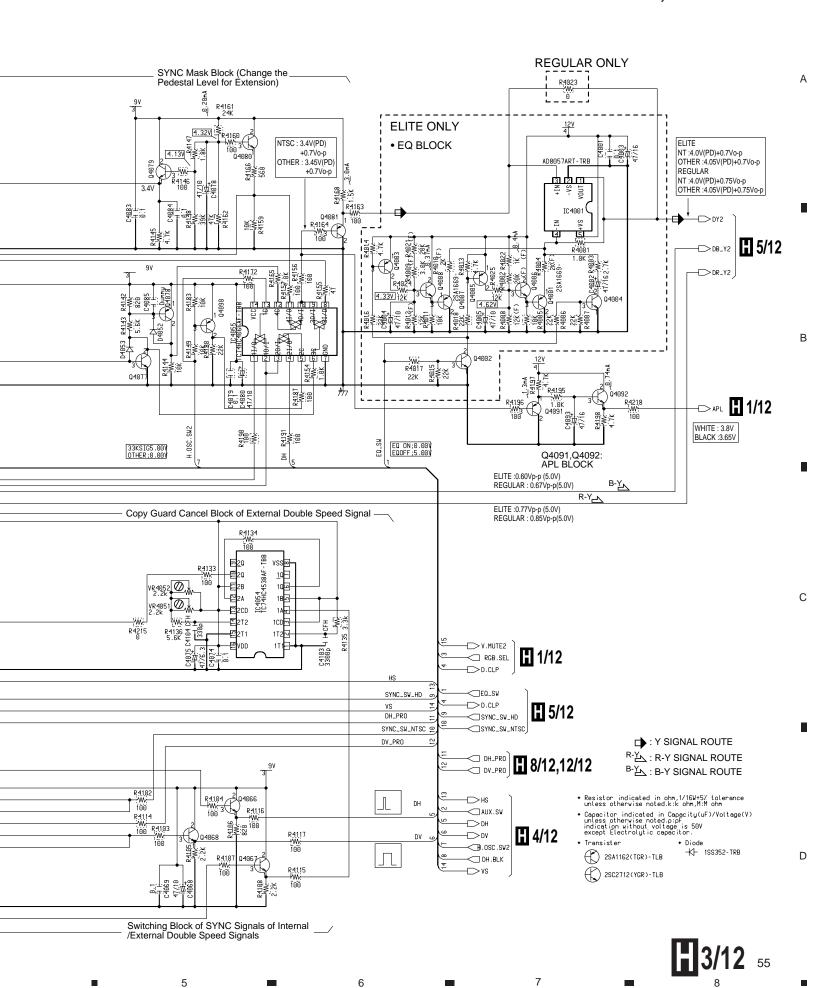
В

3.19 SUB VIDEO SERVICE and SUB VIDEO ASSYS (3/12)

2



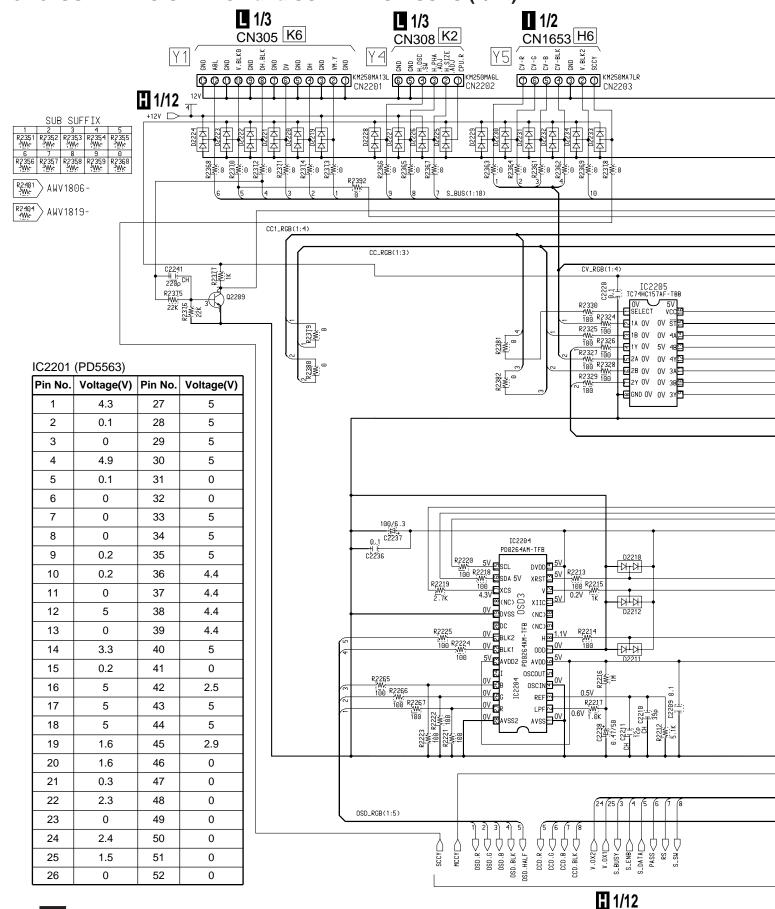
3



6

6

### 3.20 SUB VIDEO SERVICE and SUB VIDEO ASSYS (4/12)

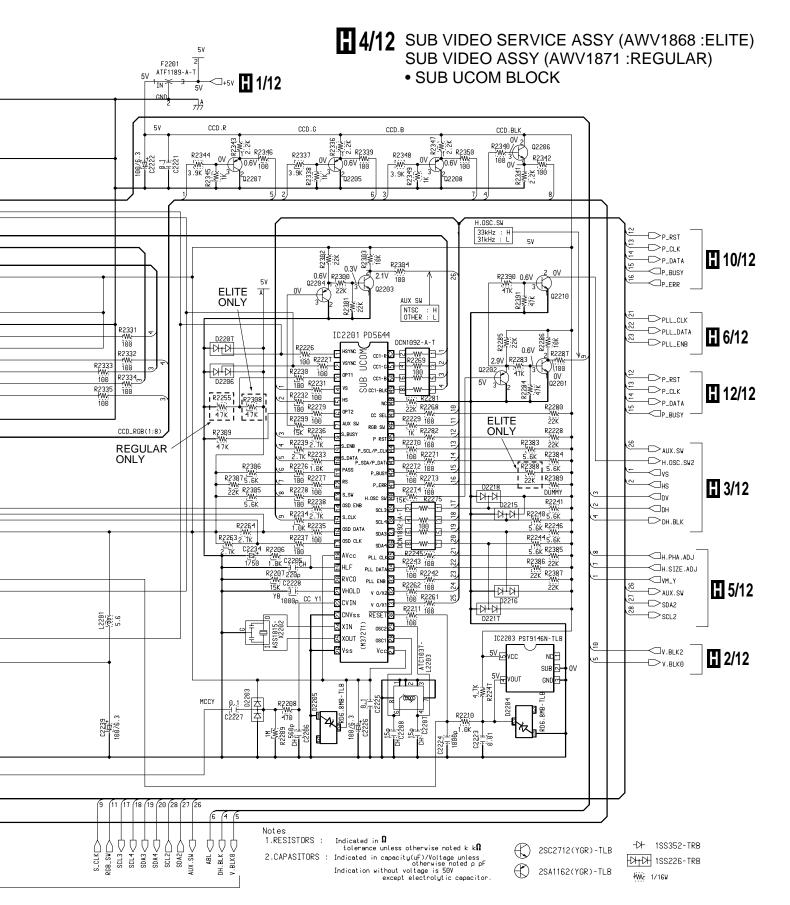


3

3

2

В



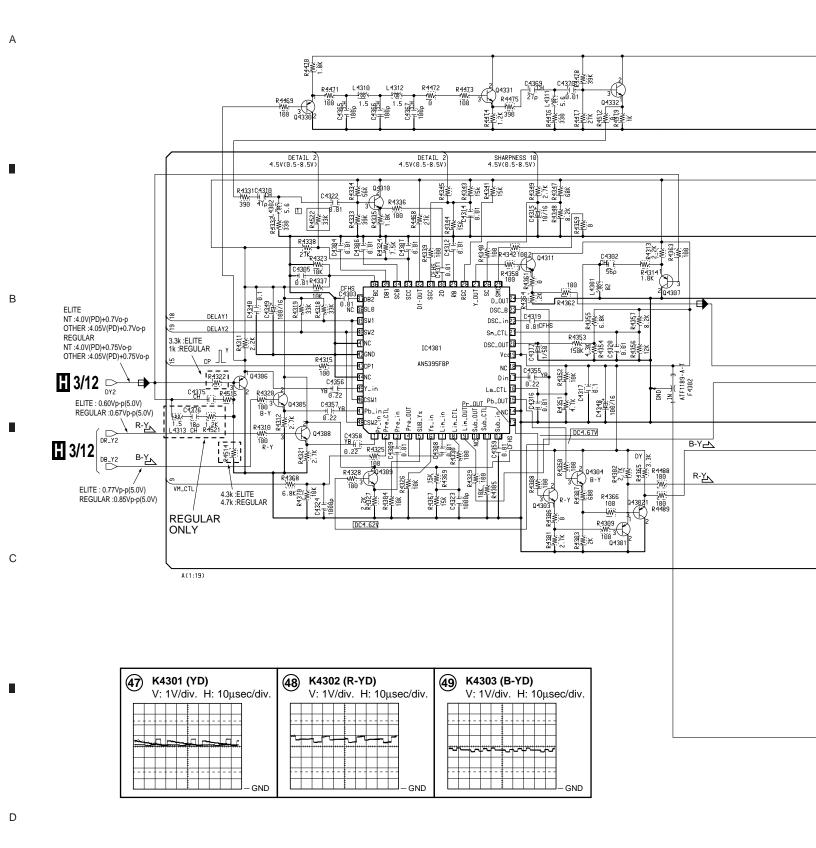
6

5

5

4/12 57

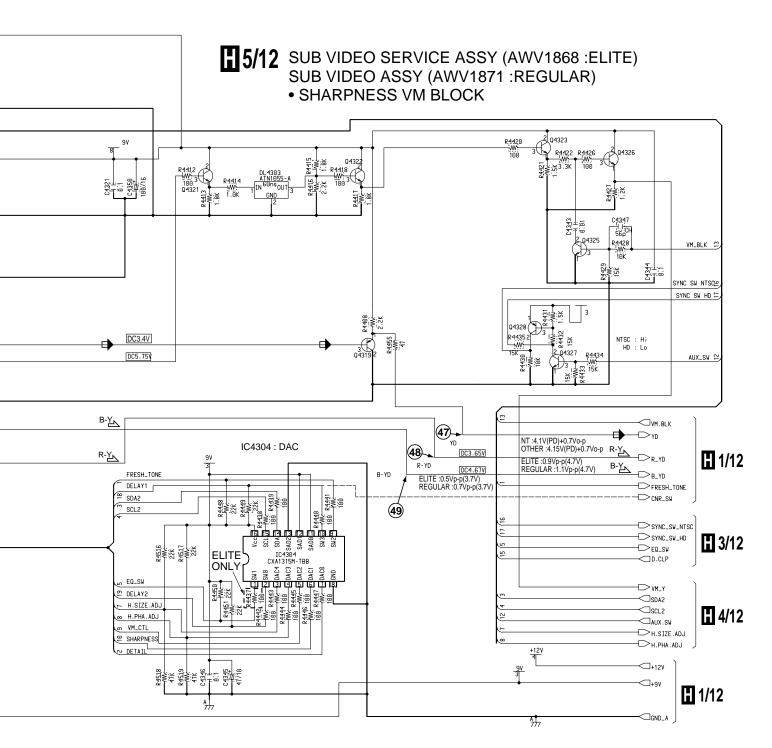
### 3.21 SUB VIDEO SERVICE and SUB VIDEO ASSYS (5/12)



3

\_

3



6

Resistor indicated in ohm,1/16W+5% tolerance unless otherwise noted.k:k ohm,M:M ohm

5

- Capacitor indicated in Capacity(uF)/Voltage(V) unless otherwise noted.pipF indication without voltage is 50V except Electrolytic capacitor.
- - Diode -K- 1SS352-TRB
- 2SA1162(TGR)-TLB

5

2SC2712(YGR)-TLB

- : Y SIGNAL ROUTE
- R-Y

  ∴: R-Y SIGNAL ROUTE
- B-Y

  ∴: B-Y SIGNAL ROUTE

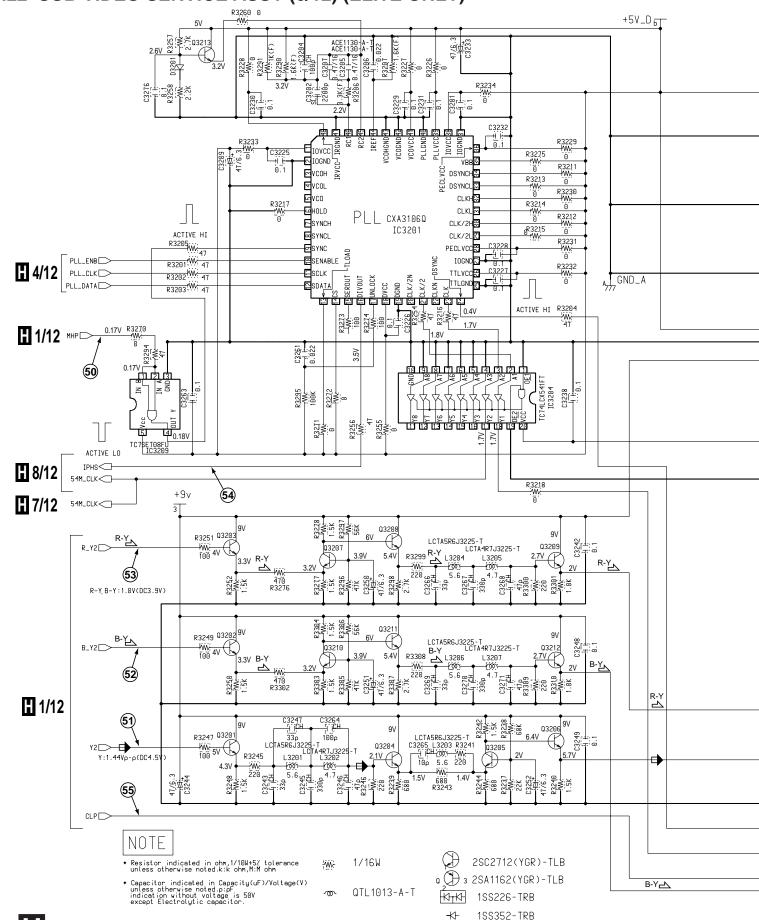
6



D

В

#### 3.22 SUB VIDEO SERVICE ASSY (6/12) (ELITE ONLY)

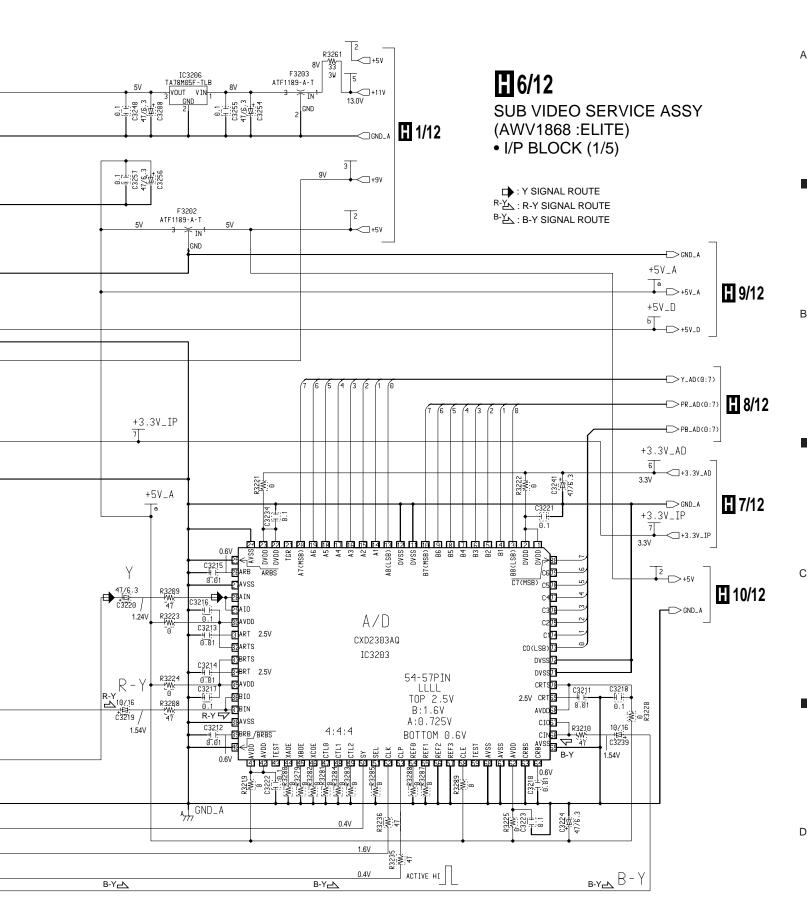


6/12

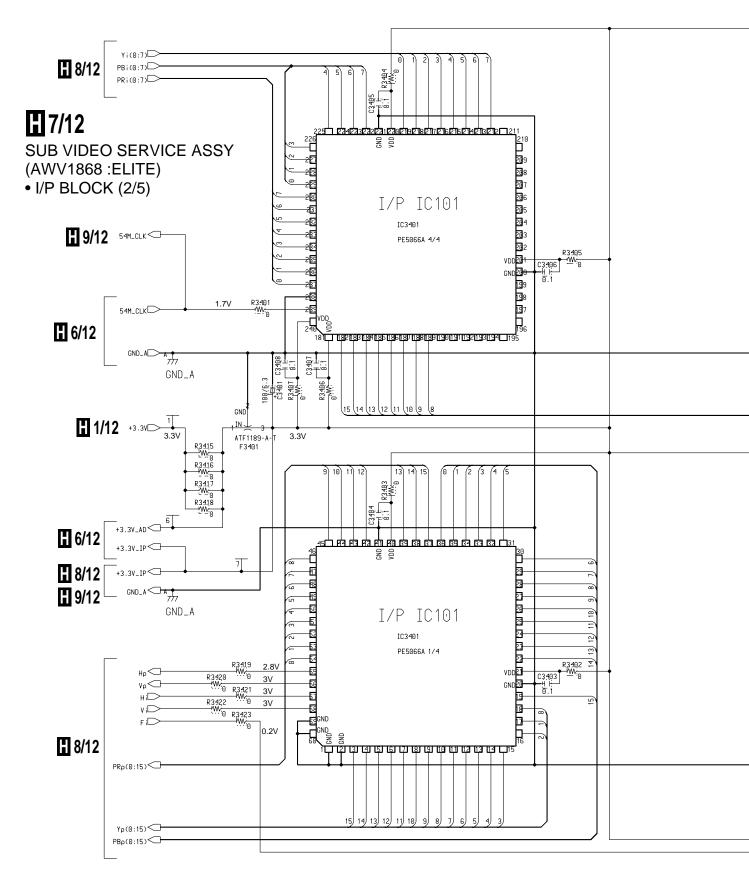
В

2

-



### 3.23 SUB VIDEO SERVICE ASSY (7/12) (ELITE ONLY)



3

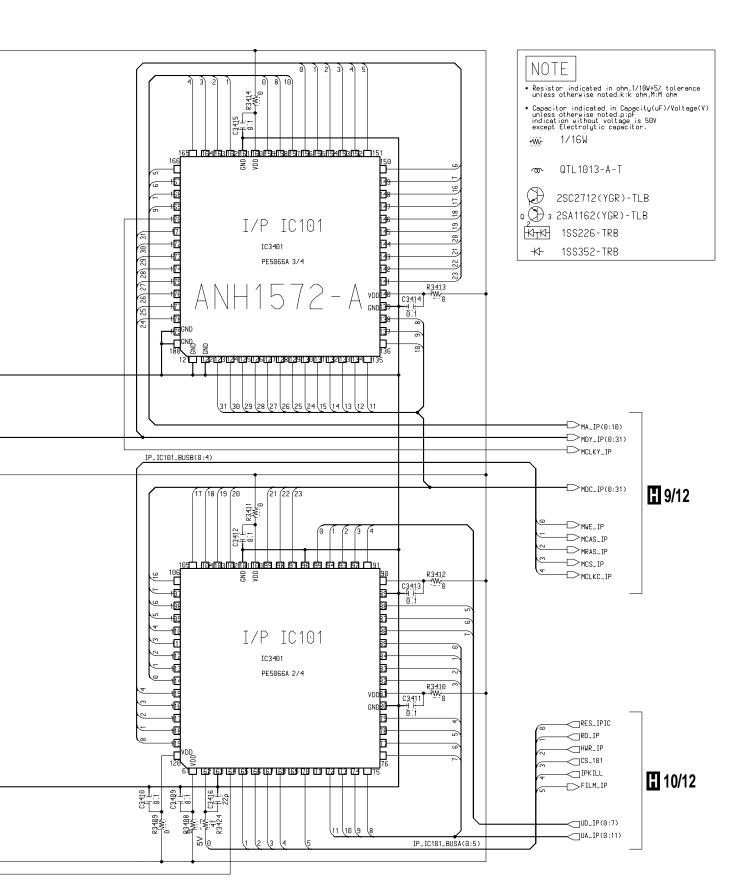
3

2

В

С

D



6

5

**7/12** 63

D

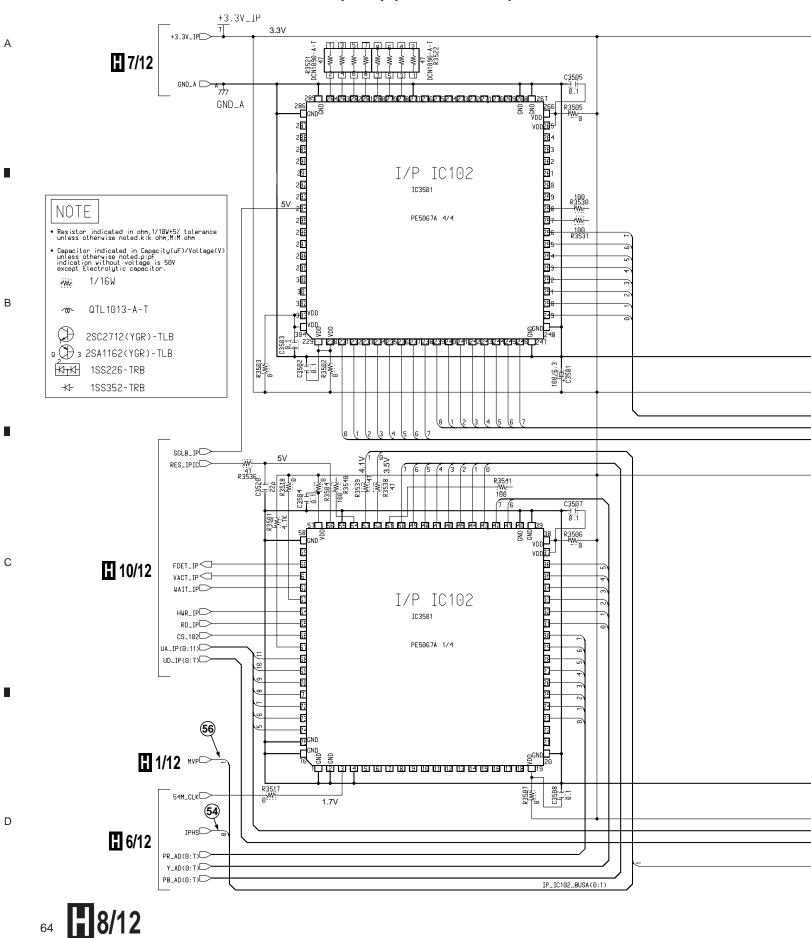
В

6

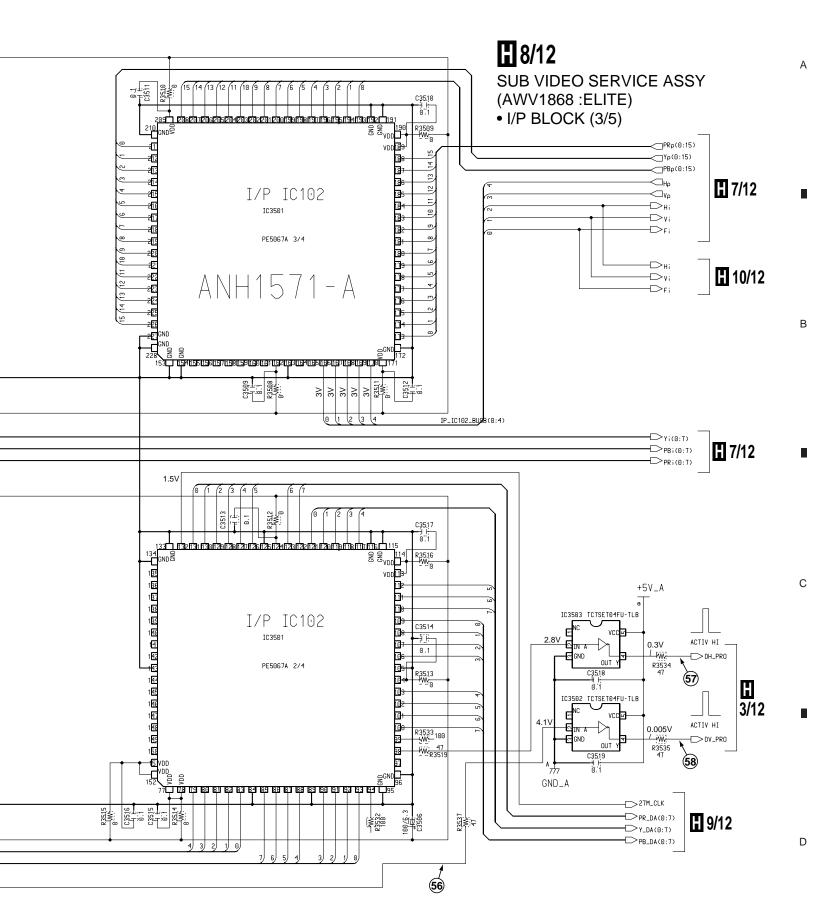
5

### 3.24 SUB VIDEO SERVICE ASSY (8/12) (ELITE ONLY)

2

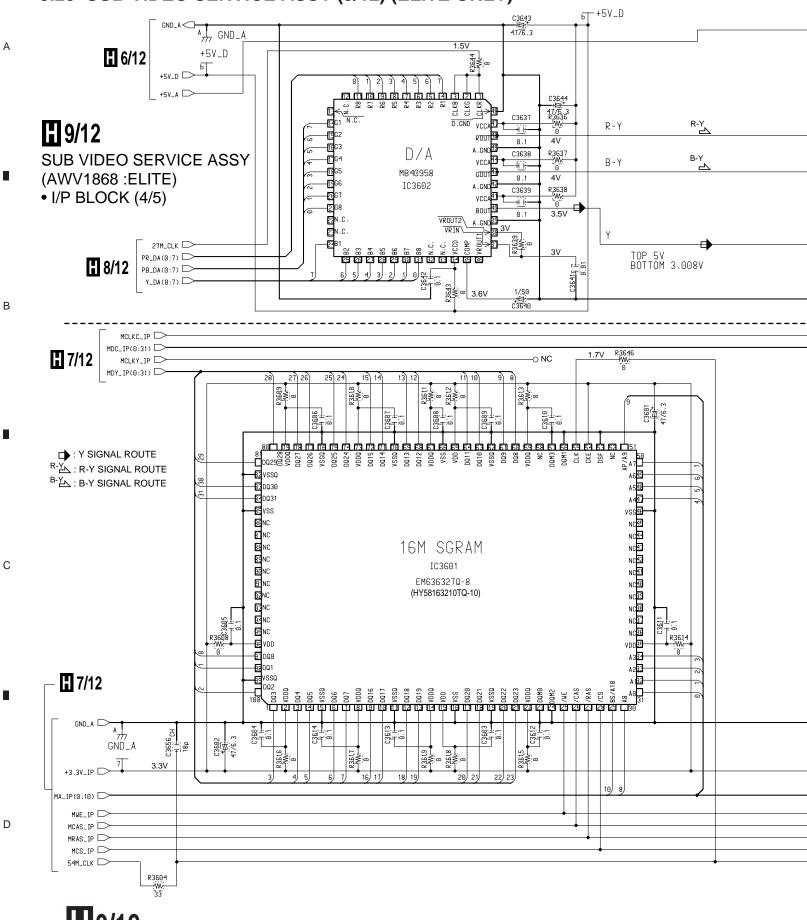


3

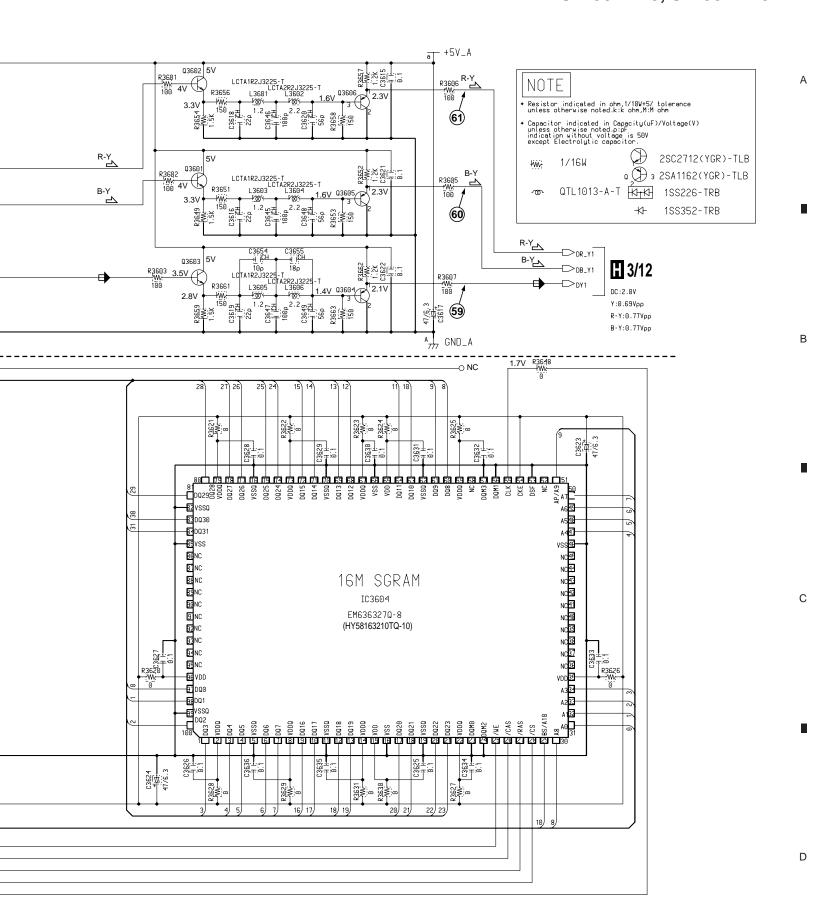


#### 3.25 SUB VIDEO SERVICE ASSY (9/12) (ELITE ONLY)

2



3

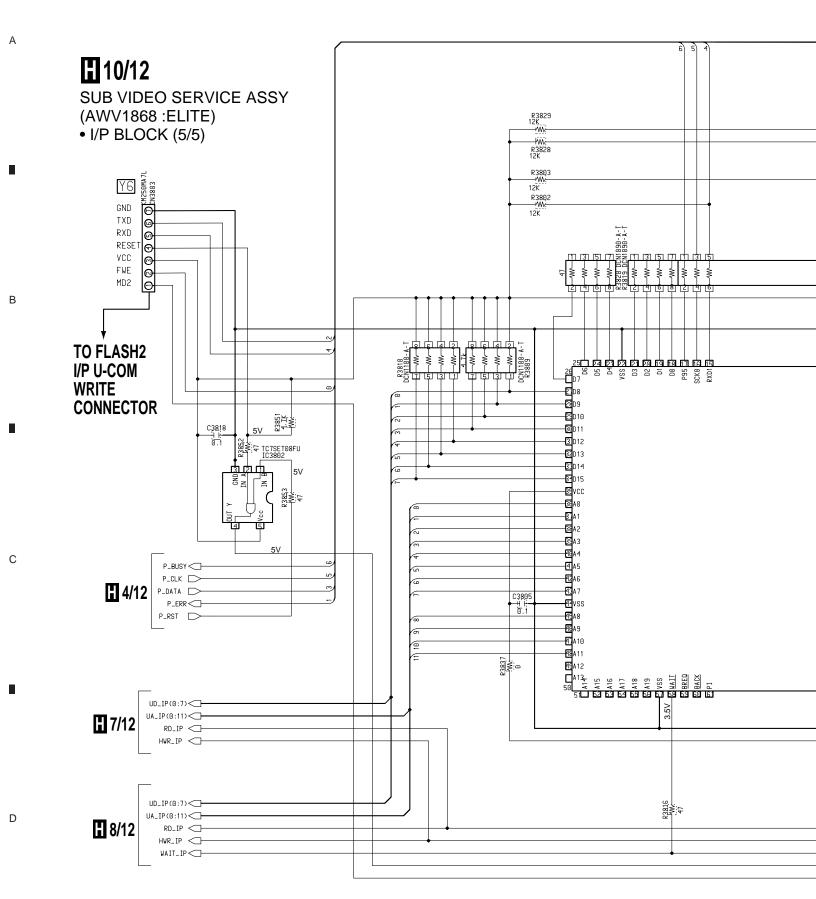


9/12 67

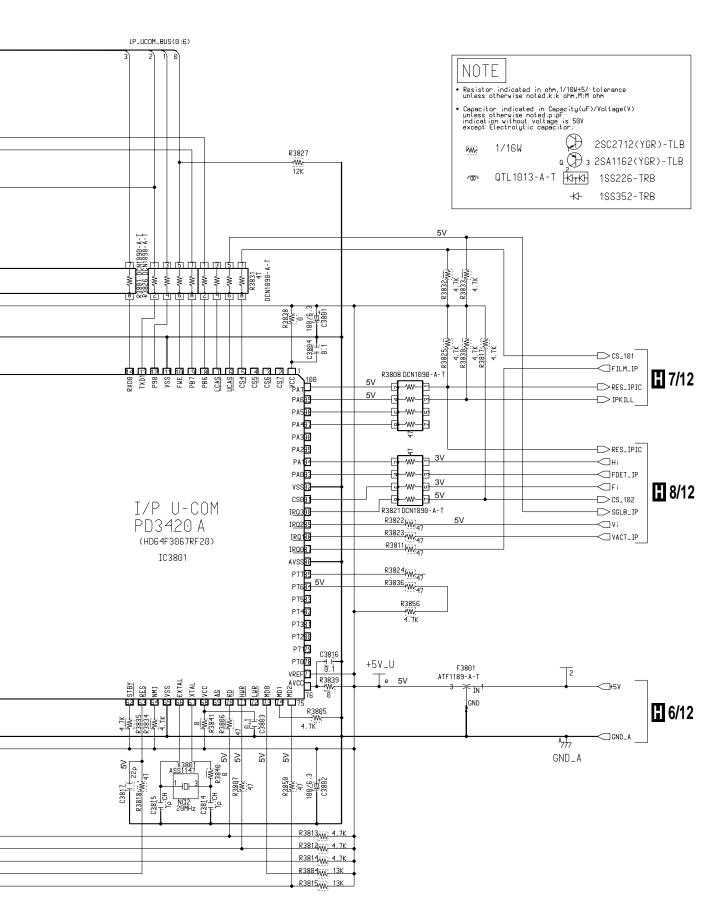
10/12

2

### 3.26 SUB VIDEO SERVICE ASSY (10/12) (ELITE ONLY)



3



6

5

**10/12** 69

В

С

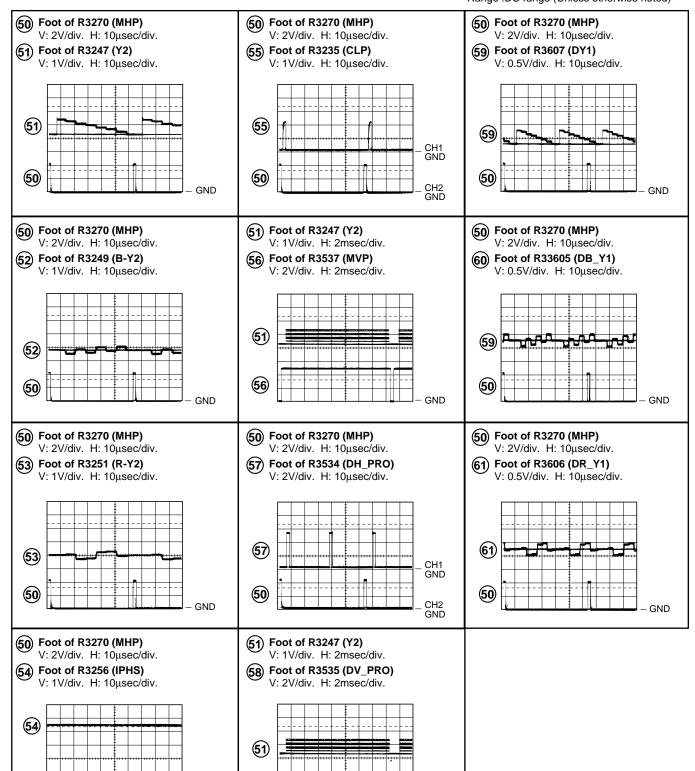
D

**-** 6

### 6/12 - 10/12

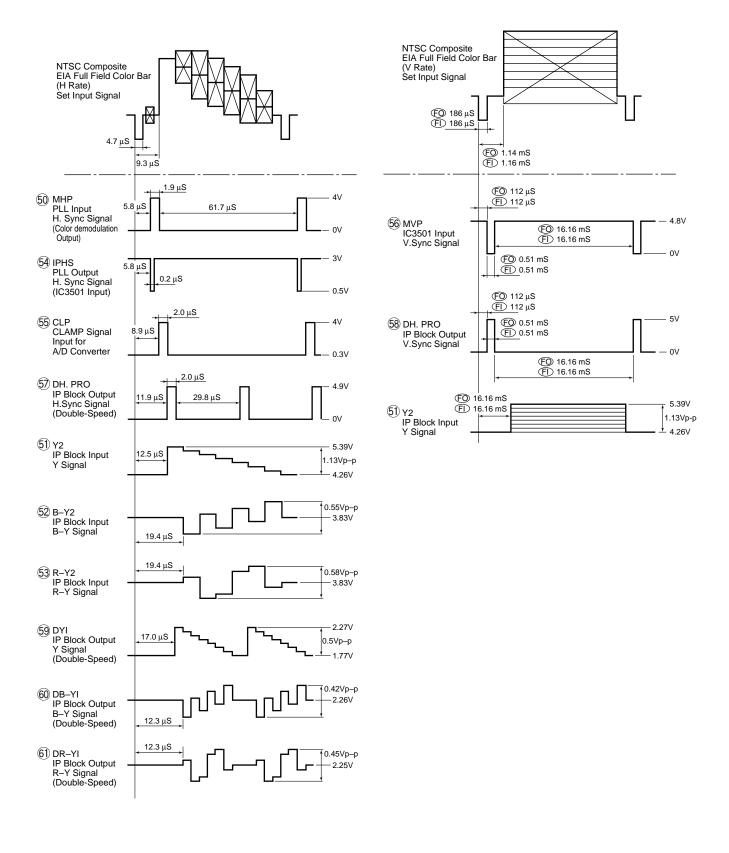
#### SUB VIDEO SERVICE ASSY (6/12-10/12)

Input signal
Video signal: EIA full field color-bar
Picture quality: Standard
Range: DC range (Unless otherwise noted)

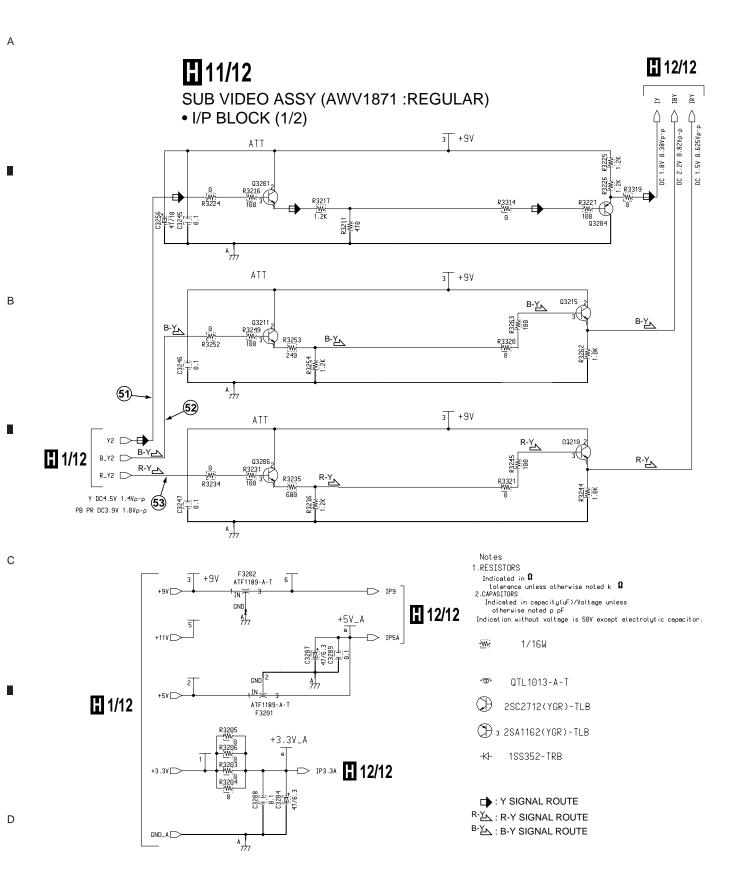


(58)

(50)

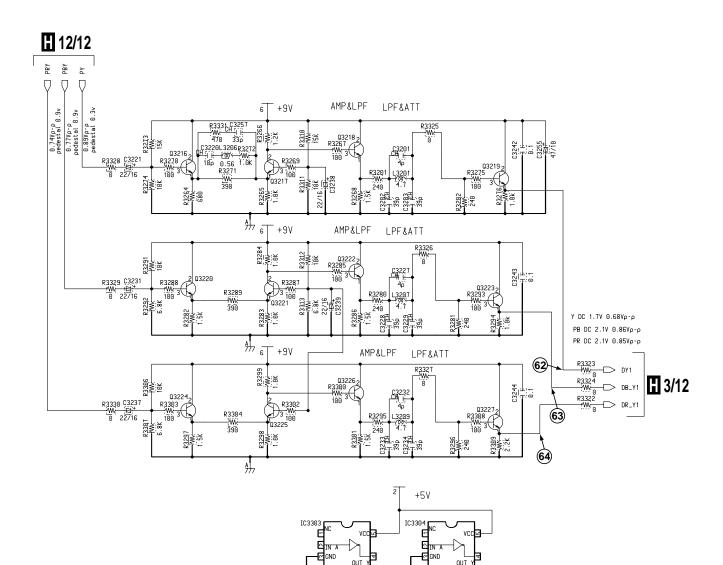


### 3.27 SUB VIDEO ASSY (11/12) (REGULAR ONLY)



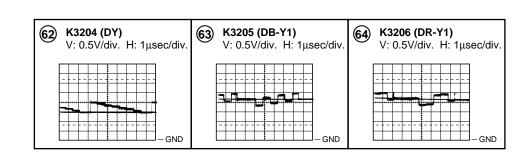
3

2



6

5

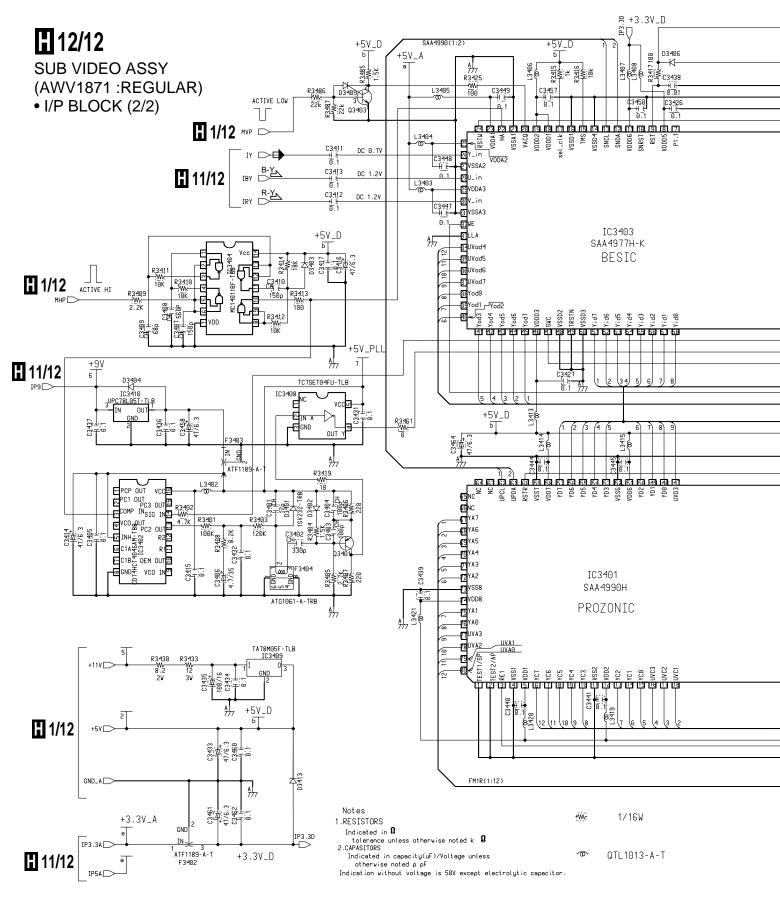


D

В

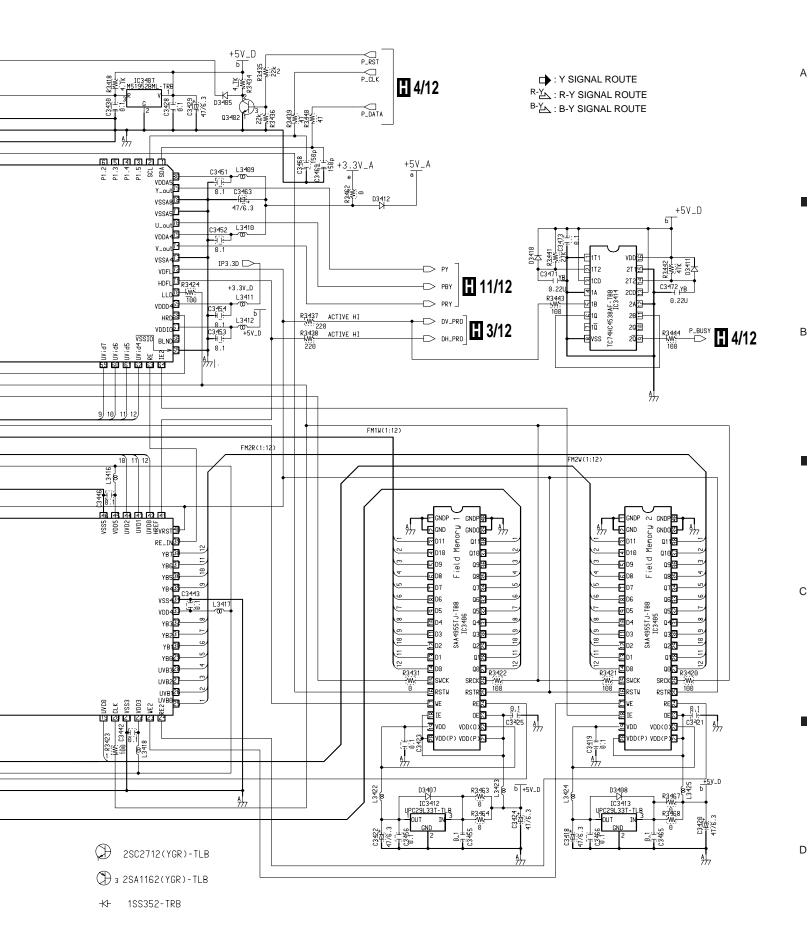
6

#### 3.28 SUB VIDEO ASSY (12/12) (REGULAR ONLY)

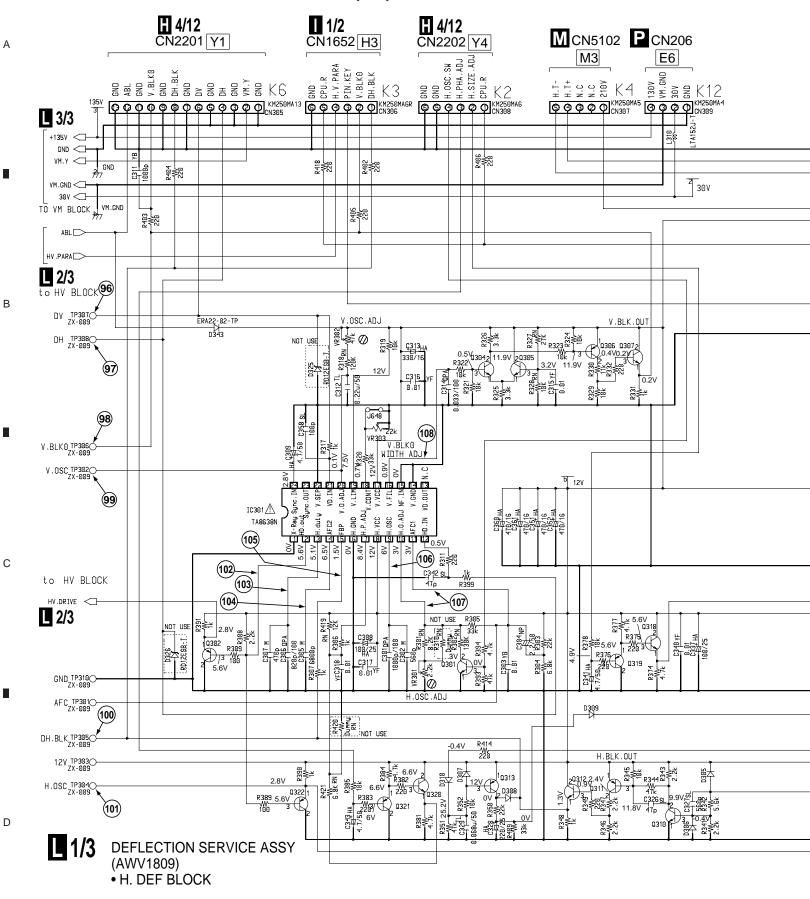


<sub>74</sub> **112/12** 

2



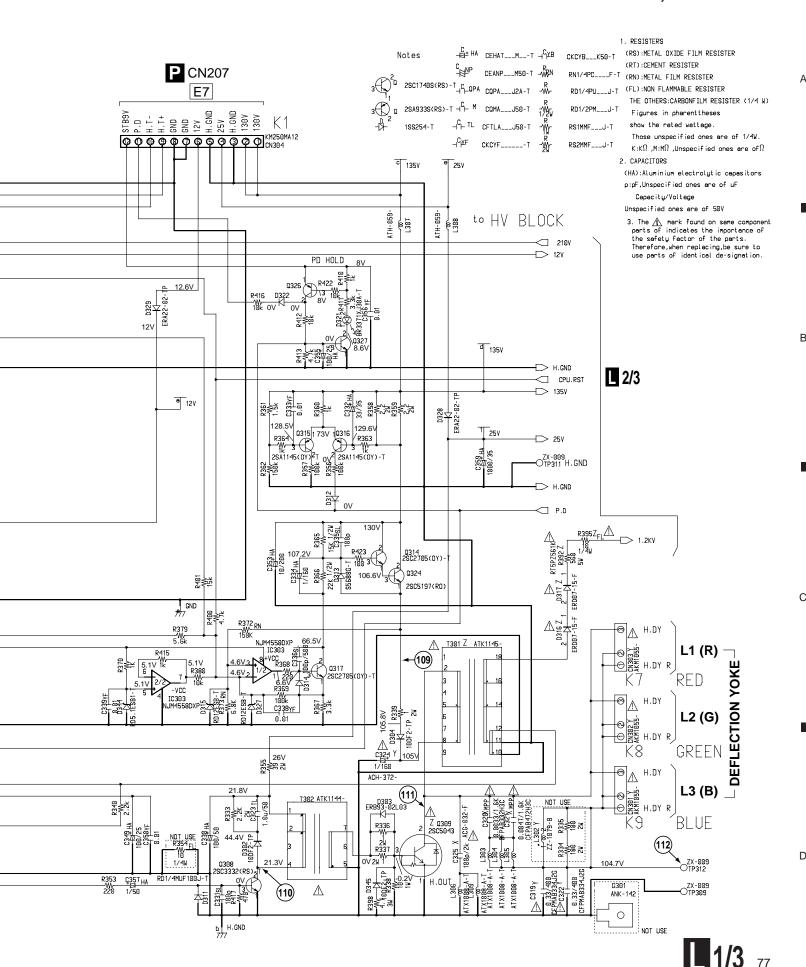
#### 3.33 DEFLECTION SERVICE ASSY (1/3)



3

1/3

3



3 PRO-710HD, PRO-610HD, PRO-510HD, SD-582HD5, SD-532HD5 3.34 DEFLECTION SERVICE ASSY (2/3) ACX1096 GND **DEFLECTION SERVICE ASSY** VR1 11055-CN 751 (AWV1809) **FOCUS**  HV BLOCK D'L AK (e) K10 H.DEF BLOCK 1.2KV D611 **L** 1/3 TP604C X-RAY ADJ X .≥ R638 ZX-009 1.2KV 0,01 06241 220/27 TP6050 ZX-009 R643 8.2k GND 0754<u>7</u> 2804686A D7551 TP607( R757 DF.OUT ZX-009 X-RAY PD TP606 ZX-009 20527 20027 19.1ESB11 12V R756 0,01 C608 HA 100/25 11.5V IC601 9 C607 YB 2200p NJM4558DXP 11.4V D604 RD12ESF H.DEF BLOCK ₹751 7.2V P.7 HA THV.PARA R751 Q751 C752 -W-220 10/50 **(113)** 0.752 15.4V 15.4V R782 88₹ 24 28 28 24 24 24 RN R644 X 75K YB C627 H.DEF BLOCK 31.9V 1/3 121 NOT USE GND [ CEO5 HA 210V.OUT <sub>225V</sub> /50 R60 10 15.1V R658 R659 Q610 2SD1276A(QP) -W/-100 -W-100 HV^ADJ (115) 212V 0.1 H.DEF BLOCK R662-0.1V 10K 25 401 L605<sub>210</sub> D613 210V LTA152J- ERB06-15-TP Q601 NOTES 2SC3332(RS)-T 1. RESISTERS I. KESISIERS

(RS).METAL OXIDE FILM RESISTER

(RT).ECHENT RESISTER

(RT).METAL FILM RESISTER

(FL).NON FLAMMABLE RESISTER

THE OTHERS:CARBONFILM RESISTER (1/4 W)
Figures in pharent theses
show the rated wattage.

K:K\(\Omega\_M\),MIN\(\Omega\_M\).Unspecified ones are of 1/4W. 22k 100 C634 HA 4.7/250 126V 2SC3468 (DE)-T HA Ç633 1/50 0609 2. CAPACITORS
(HA):Aluminium electrolytic capasitors
pipf,Unspecified ones are of uF
Capacity/Voltage
Unspecified ones are of 50V 210V.ADJ 0.01 3. The mark found on same component parts of indicates the importance of the safety factor of the parts. Therefore when replacing, be sure to use parts of identical de-signation. DÉ1 HV.DRIVE 🗀 **1/3** 251 CPU.RST <

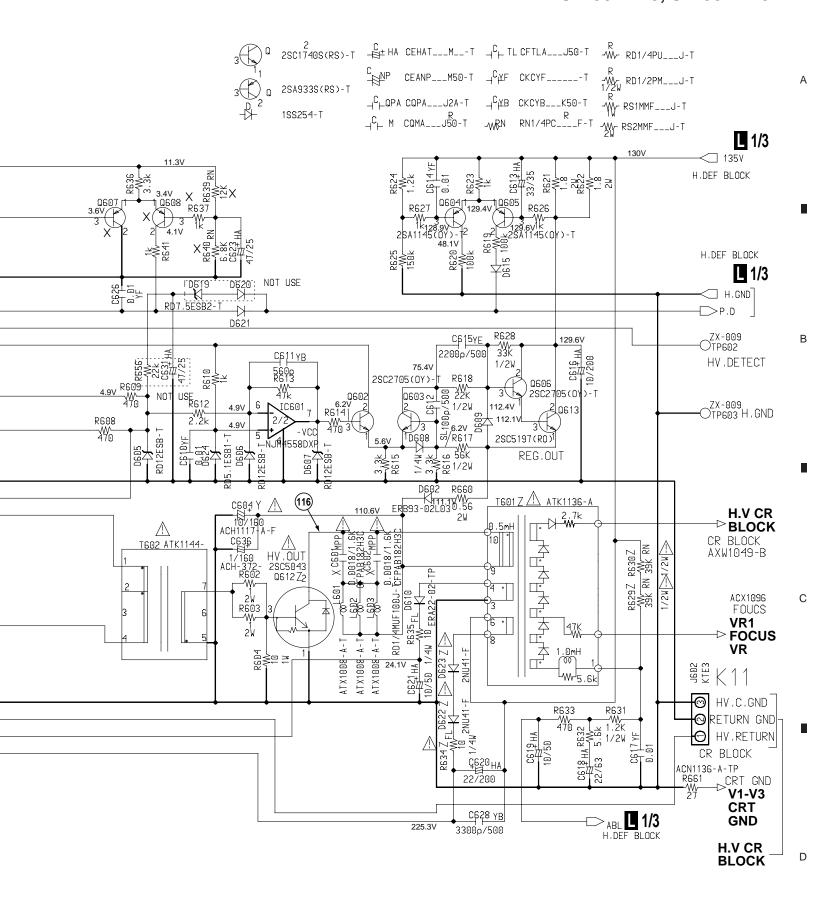
3

В

С

D

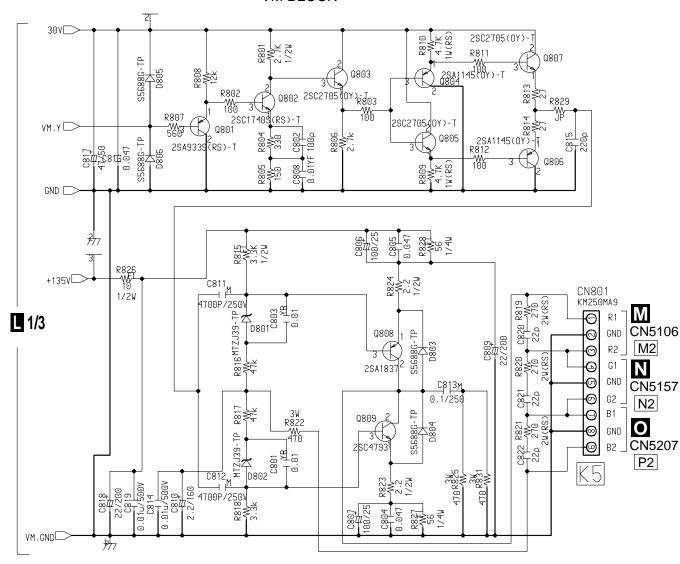
H.DFF BLOCK



#### 3.35 DEFLECTION SERVICE ASSY (3/3)

## DEFLECTION SERVICE ASSY (AWV1809) • VM BLOCK

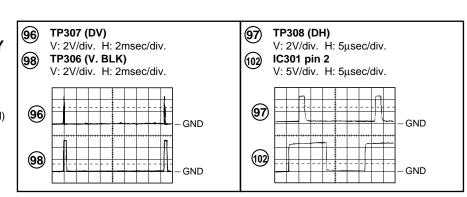
3



## DEFLECTION SERVICE ASSY

Input signal Video signal : EIA full color-bar Picture quality : Standard Range :DC range (Unless otherwise noted)

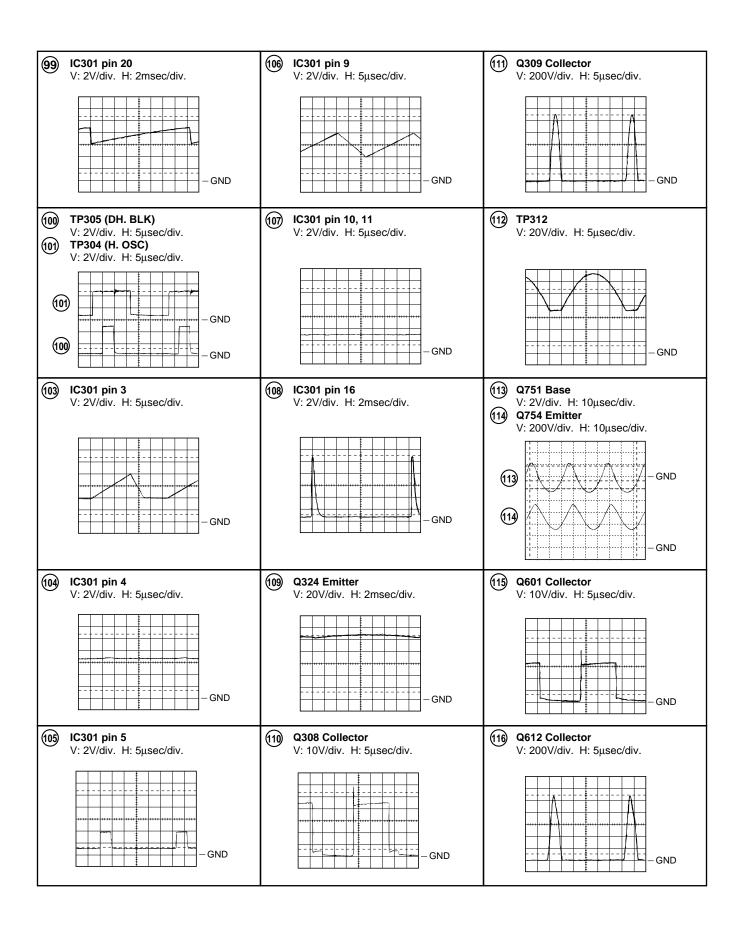
2



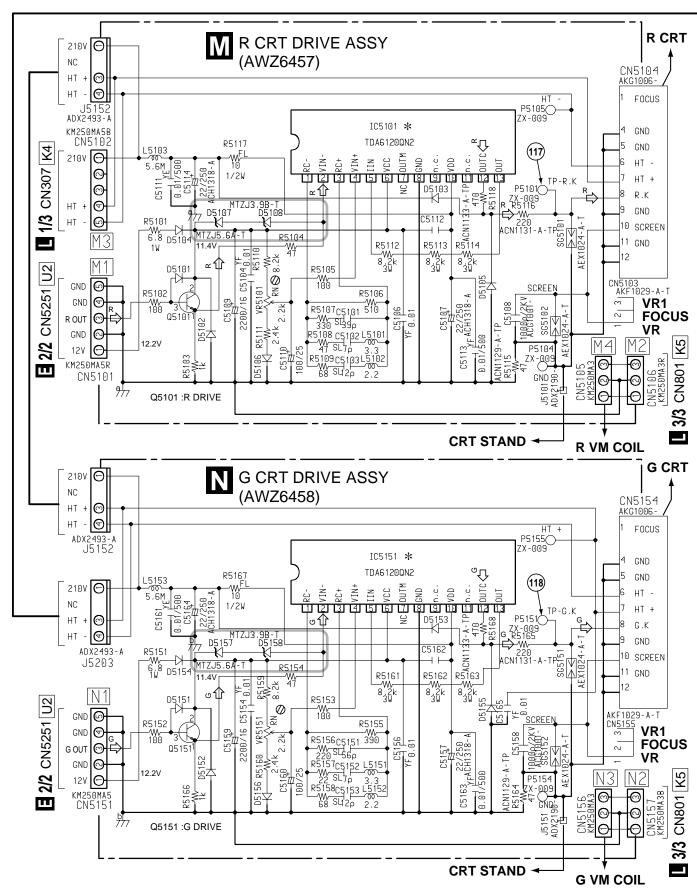
4

3

D



#### 3.36 R, G and B CRT DRIVE ASSYS

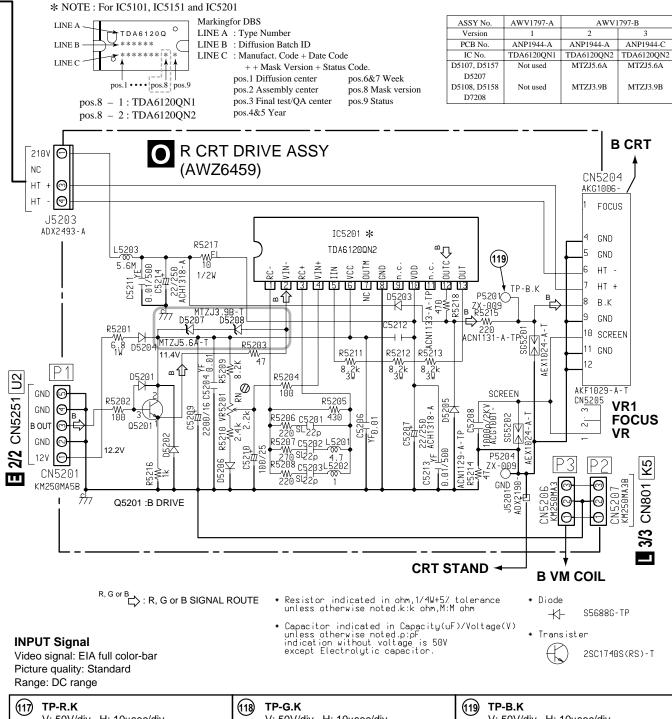


В

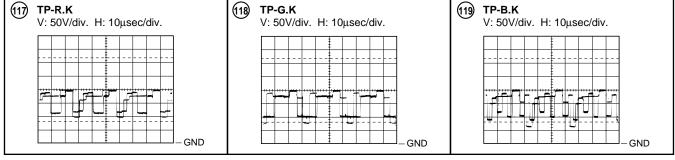
С

2

3



6



6

5

7

D

В

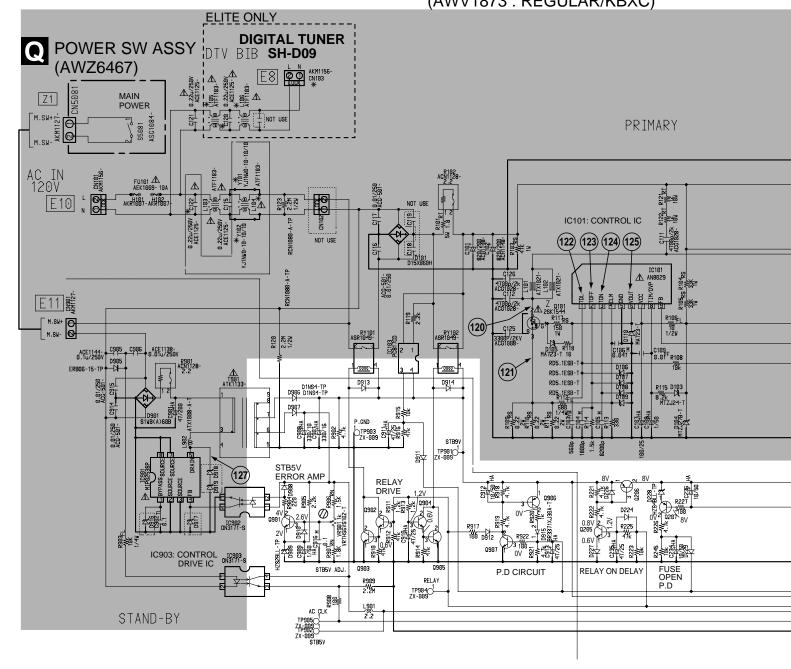
#### 3.37 POWER SUPPLY ASSY

В

POWER SUPPLY ASSY

(AWV1872 : ELITE)

(AWV1869 : REGULAR/KUXC/CA) (AWV1873 : REGULAR/KBXC)



1.RESISTORS
(RS): METAL OXIDE FILM RESISTOR
(RT): GENERIT RESISTOR
(RT): METAL FILM RESISTOR
(FL): NON-LAMMABLE RESISTOR
THE OTHERS; CARBON FILM RESISTOR
Those unspecified ones are of 1/4W
(κ|κ|: M.MM]: Unspecified ones are ofΩ
2.CAPACTIORS
(ΥΓ): CERAMIC CAPACITOR

K;KI, M;MI, UNSPECTITED ONES DE COM.

2.CAPACTIONS

(I) CEBANTC CAPACTION

(K) CEBANTC CAPACTION

(K) CHARLES CAPACTION

(W) CEBANTC CAPACTION

(W) MTLAR CAPACTION

(M) MTLAR CA

3.The A mark found on same component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical de-signation. : CHARGED SECTION

2SA933S(RS)-T

28C1740S(RS)-T

-KJ- 1\$\$254-T



2

3

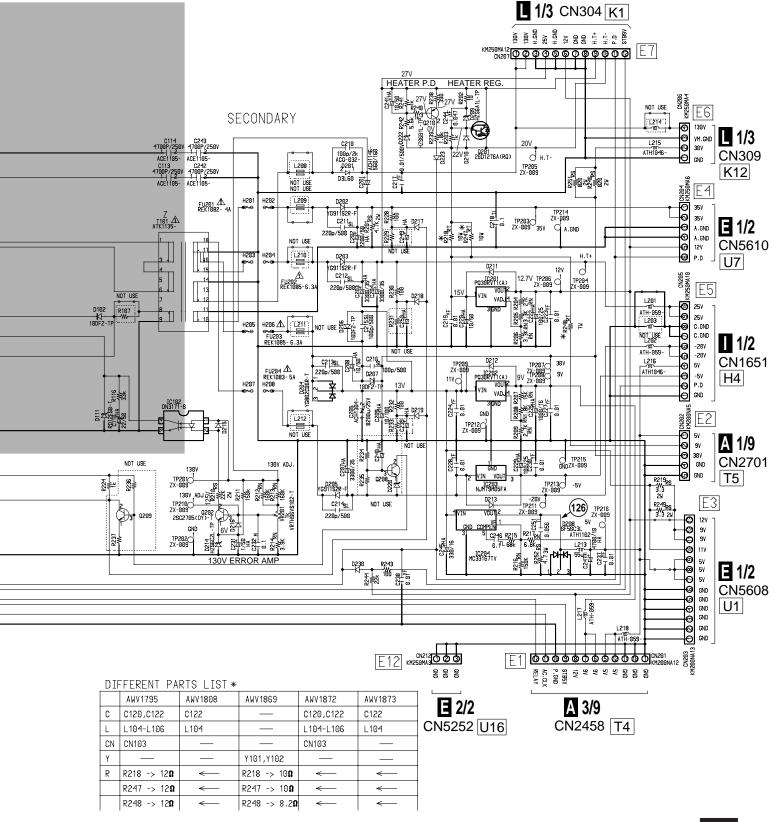
#### NOTE FOR FUSE REPLACEMENT

5

5

**CAUTION -**FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

6



6

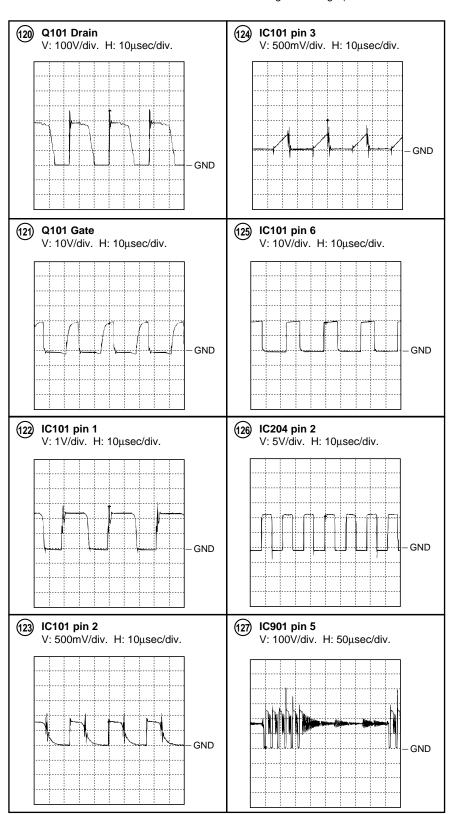


Input signal

Video signal : EIA full color-bar

Picture quality : Standard

Range :DC range (Unless otherwise noted)

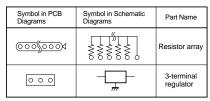


#### 4. PCB CONNECTION DIAGRAM

#### NOTE FOR PCB DIAGRAMS:

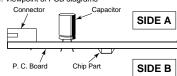
- 1. Part numbers in PCB diagrams match those in the schematic
- A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name		
(○ ○ ○ ○ B C E	B C E B C E	Transistor		
• ○ ○ ○ ○ B C E	B C E B C E	Transistor with resistor		
(O O O D G S		Field effect transistor		

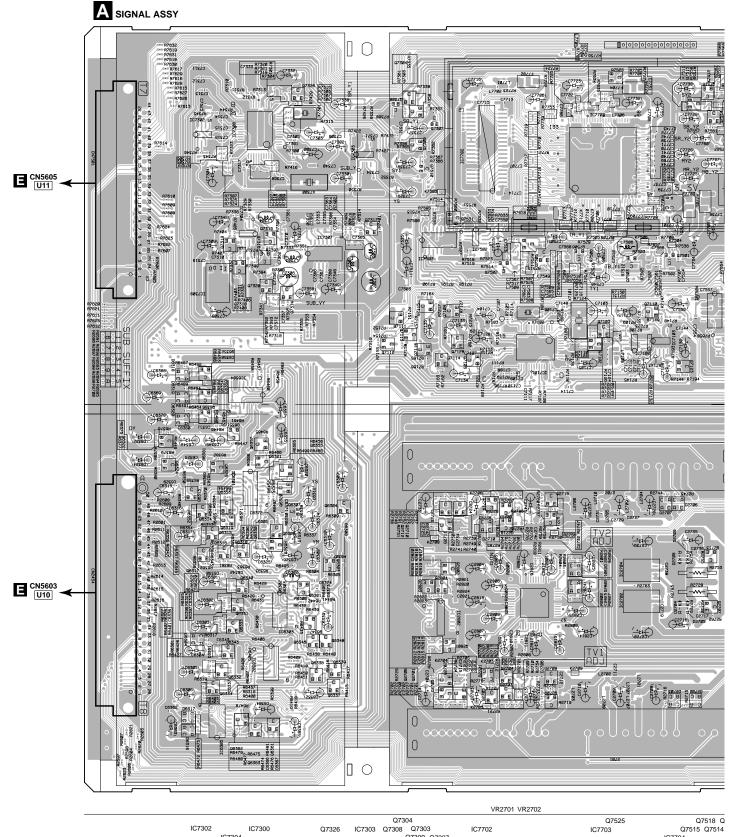


3. The parts mounted on this PCB include all necessary parts for several destination. For further information for respective destinations, be sure to check with the schematic diagram.

4. Viewpoint of PCB diagrams





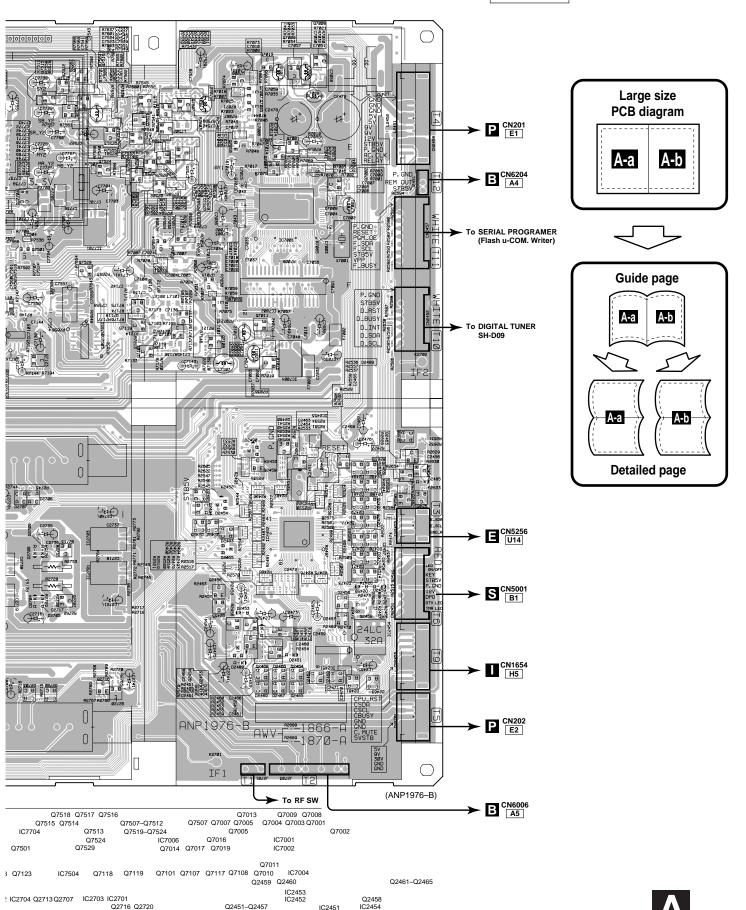


IC7304 Q7319 Q7309 Q7307 Q7315 Q7316 Q7314 Q7310 IC7503 Q7502 Q7128 Q7505 Q7506 Q7318 Q7320 IC7308 Q7102 Q7103 Q7111-Q7115 Q7105 Q7104 Q6356 Q6352 IC6304 Q6322 Q6324 Q6325 Q6351 Q6357 Q6355 IC7102 IC7103 Q7123 Q2710-Q2712 Q2719 Q2717 Q2715 Q2714 2 06324 06325 06331 06337 06339 06313 06353 06321 106301 06320 06314-06319 06340 06330 06306 06301 06303 06304 06331-06333 06343 106302 106303 06346-06348 106305 06334 06361-06363 06337-06339 IC2802 IC2702 IC2704 Q2713 Q2707 Q2801 Q2706

3

5

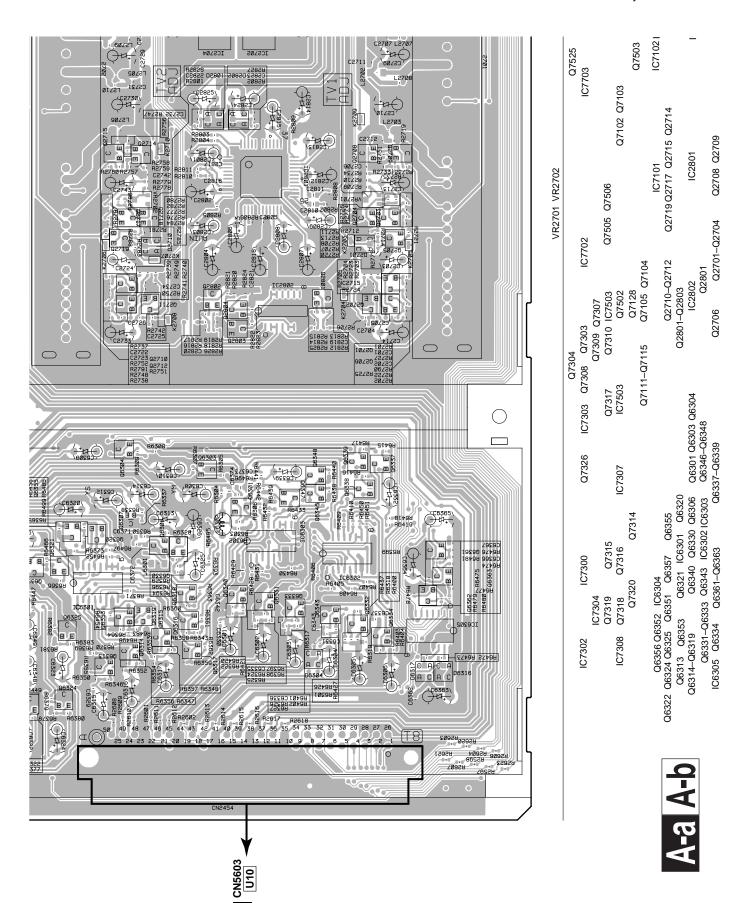
#### SIDE A



3

A-a

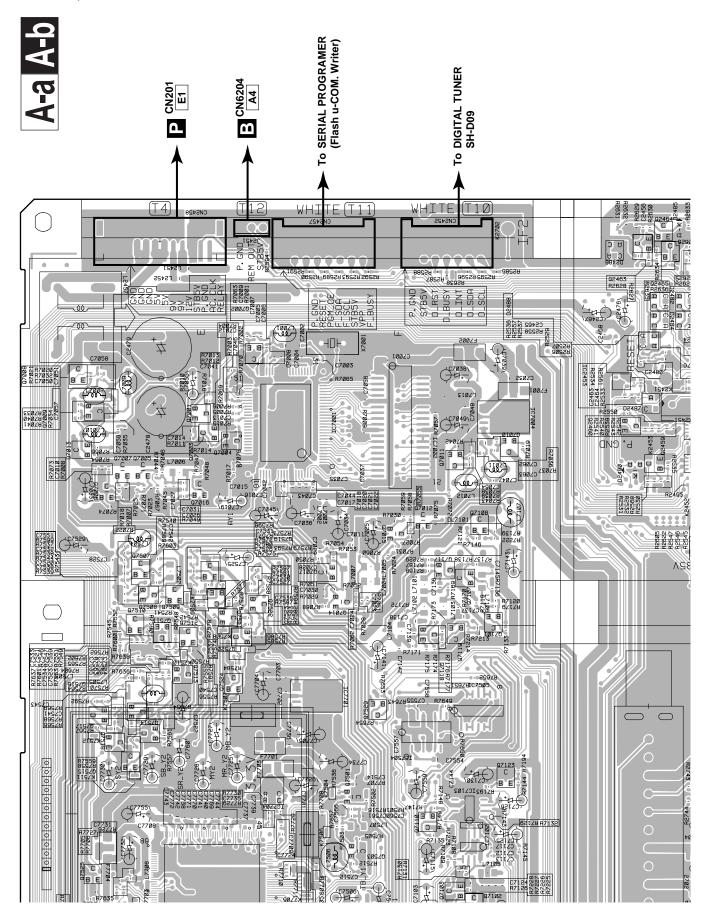
2



6

5

A-a



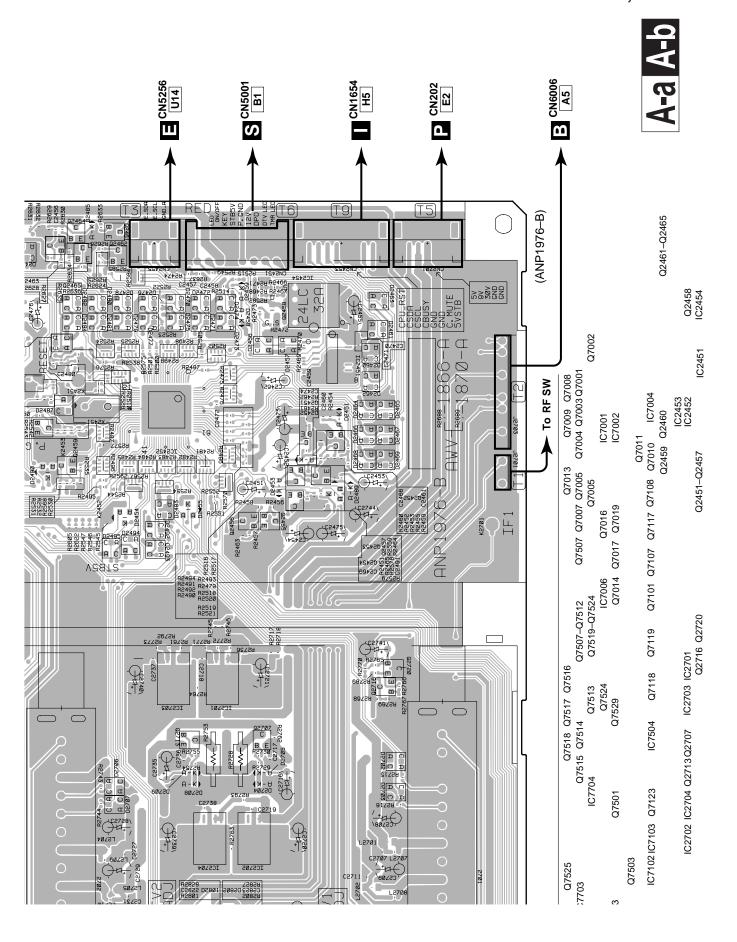
A-b

92

SIDE

В

2



6

6

5

5

A-b

93

В

С

A SIGNAL ASSY

 $\odot$ 

3

3

A

2

Q7528 Q7527 Q7526

94

С

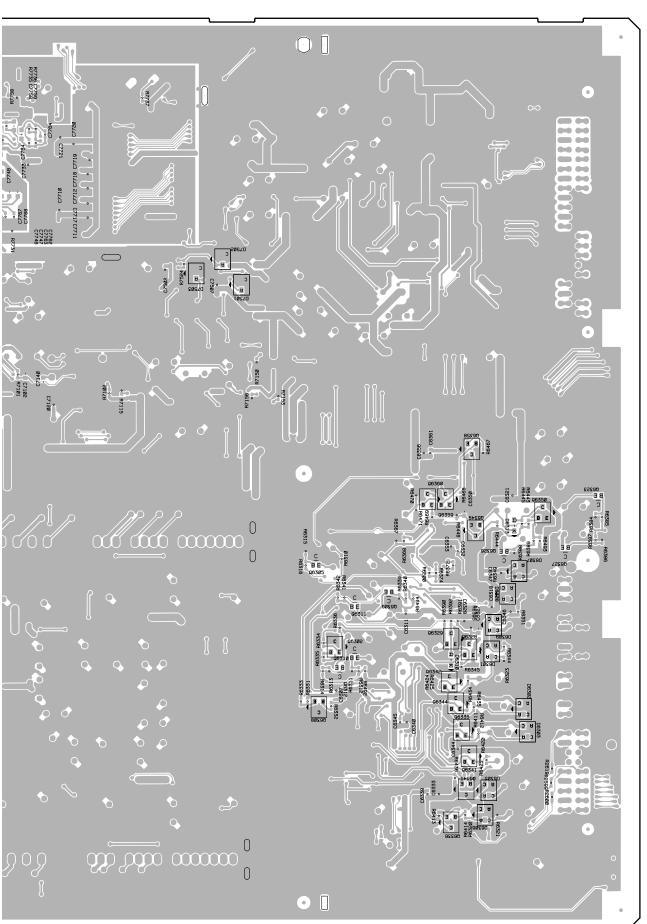
D

SIDE B

6

5

5



6

Q6358

В

С

D

Q6360 Q6323 Q6359 Q6350 Q6349

Q6327 Q6326 Q6305

Q6309 Q6311

Q6329 Q6328 Q6310 Q6302 Q6312 Q6342

Q6344 Q6308

Q6335

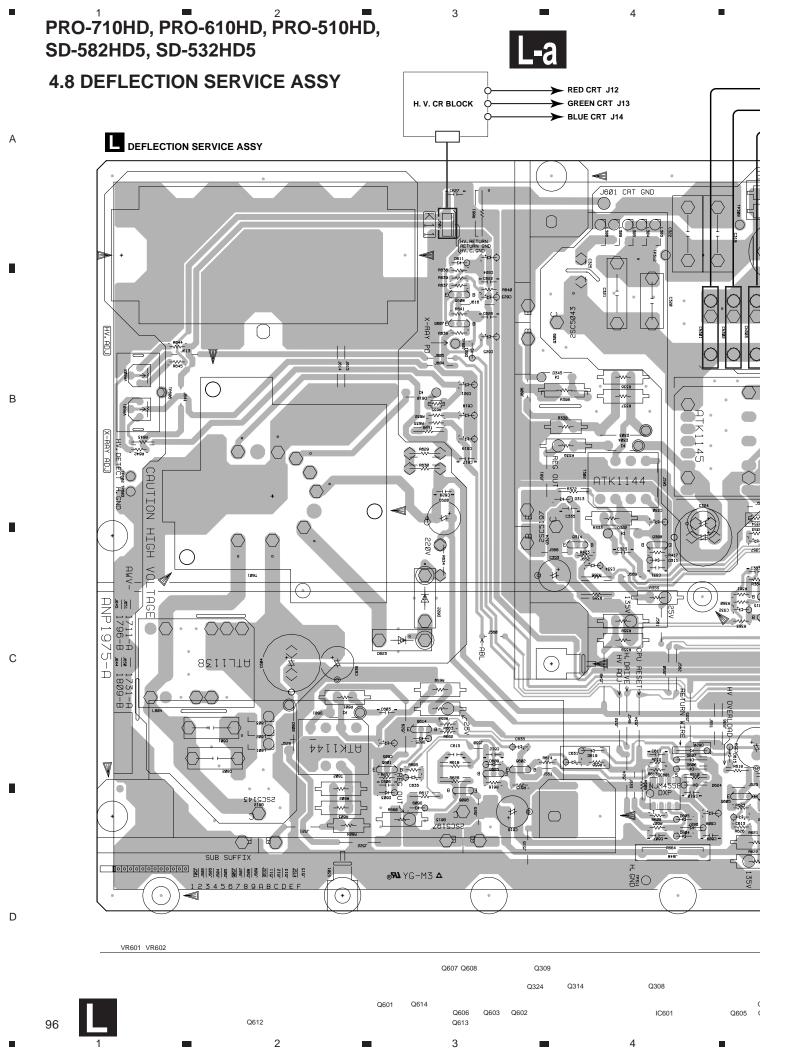
Q6341

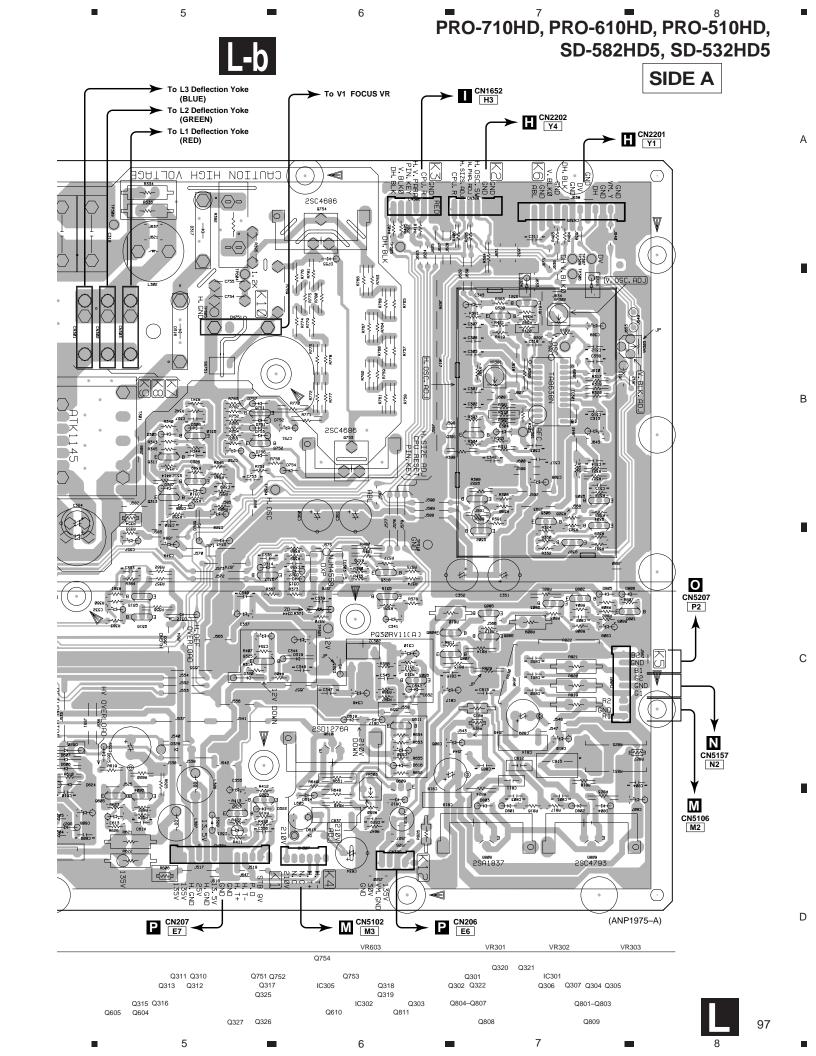
Q6345

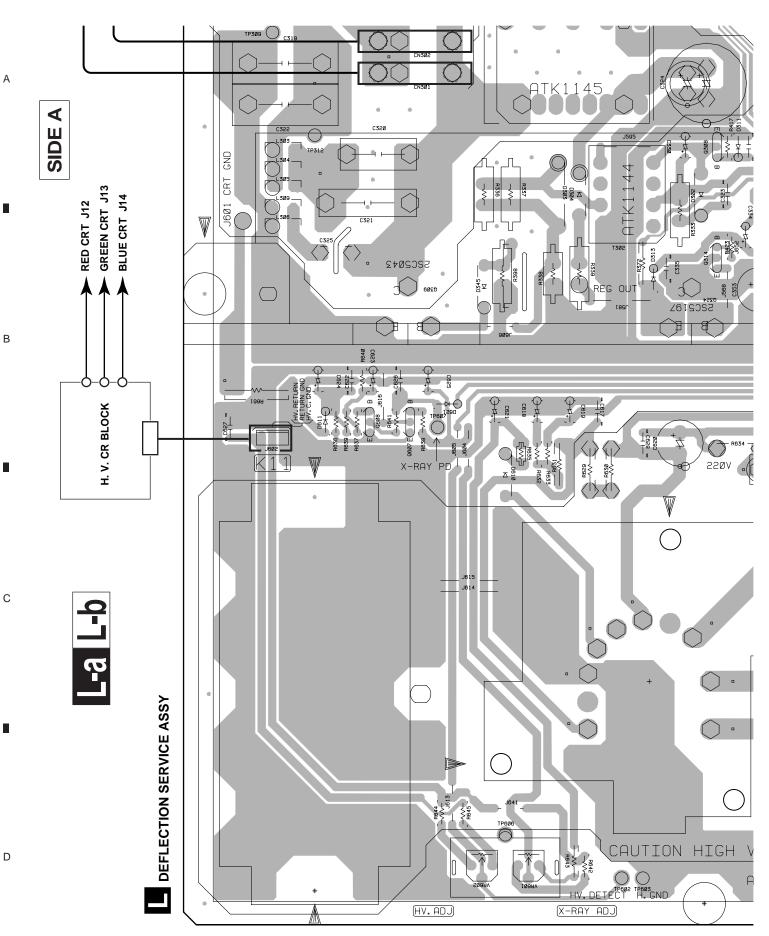
Q6336

A

(ANP1976-B)



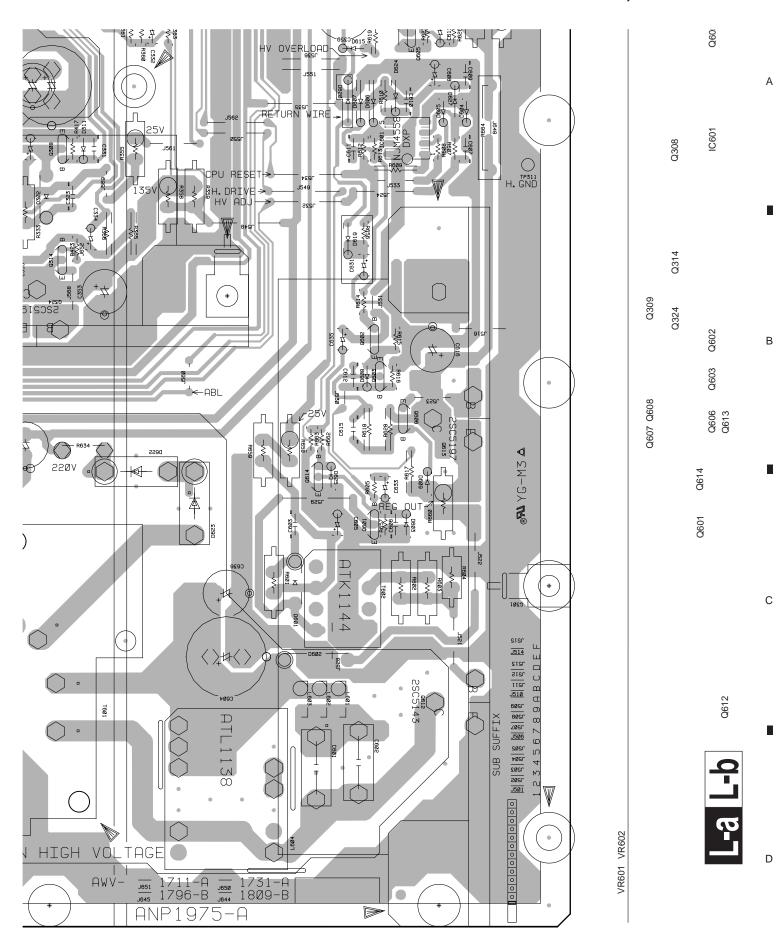




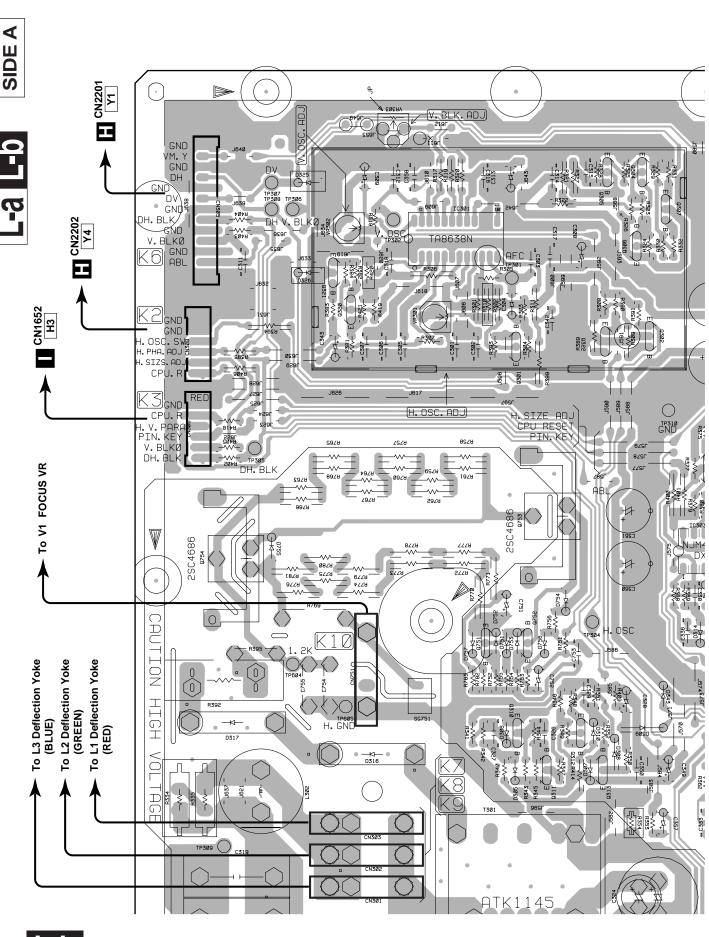
3

L-a

2



L-a

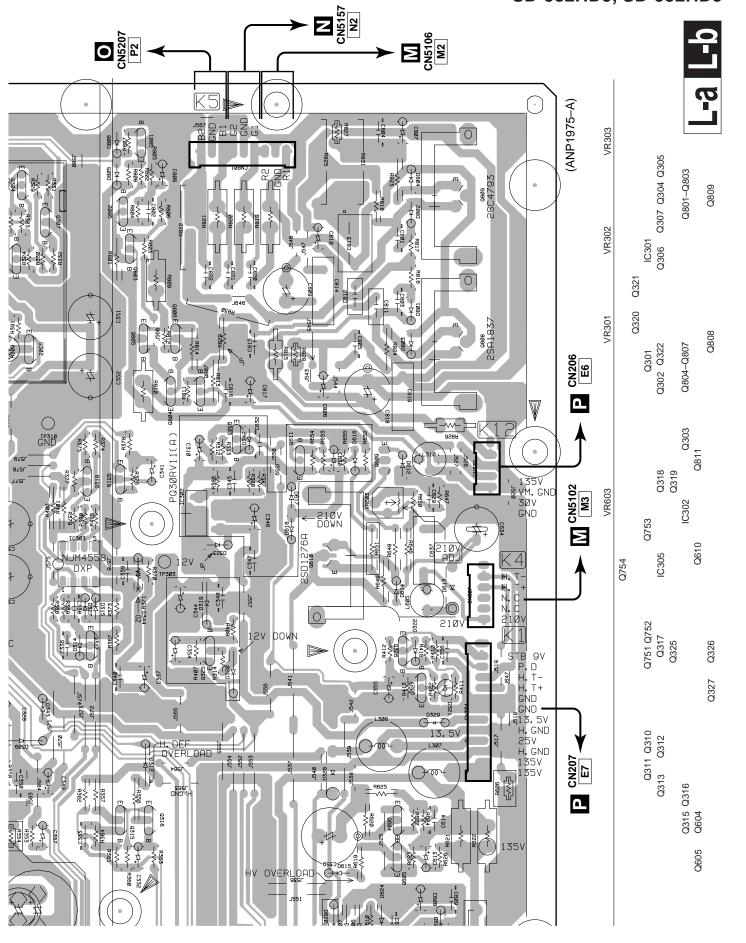


3

3

2

D



L-b

В

С

5

5

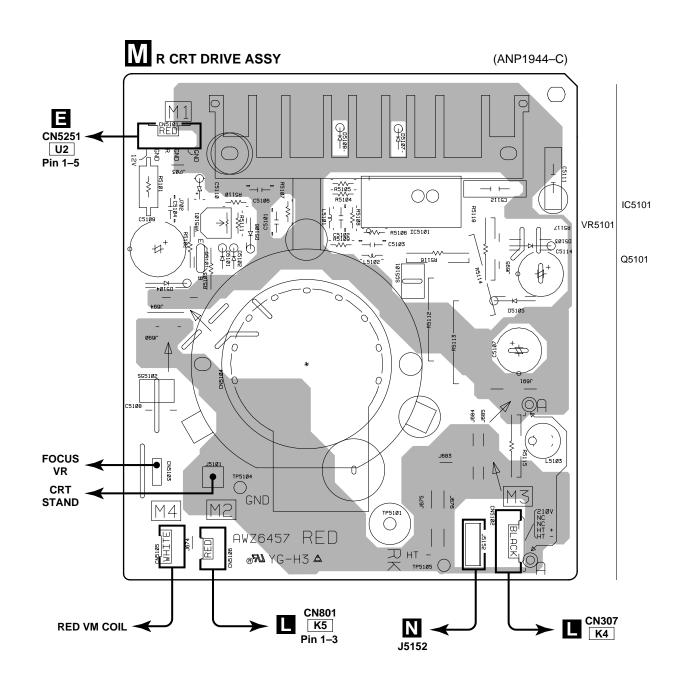
6

#### 4.9 R CRT DRIVE ASSY

В

### SIDE A

3



M

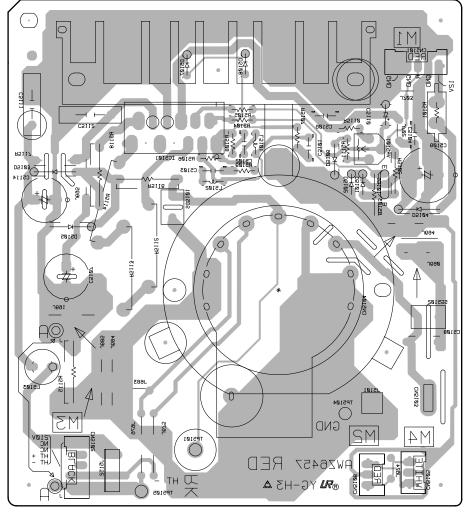
D

2

3

SIDE B

### R CRT DRIVE ASSY



(ANP1944-C)

10

С

2

1

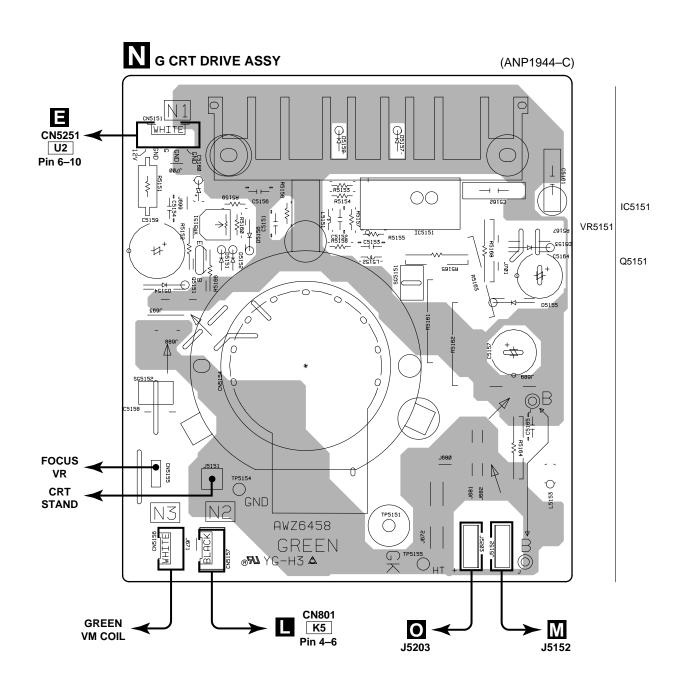
#### 4.10 G CRT DRIVE ASSY

В

D

SIDE A

3



N

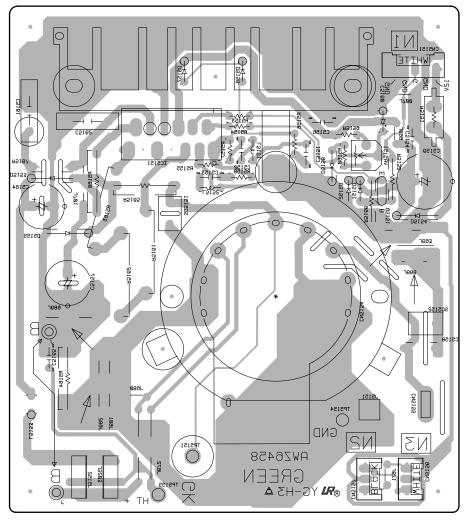
2 ■ 3

SIDE B

### N G CRT DRIVE ASSY

1

2



(ANP1944-C)

N 10

С

D

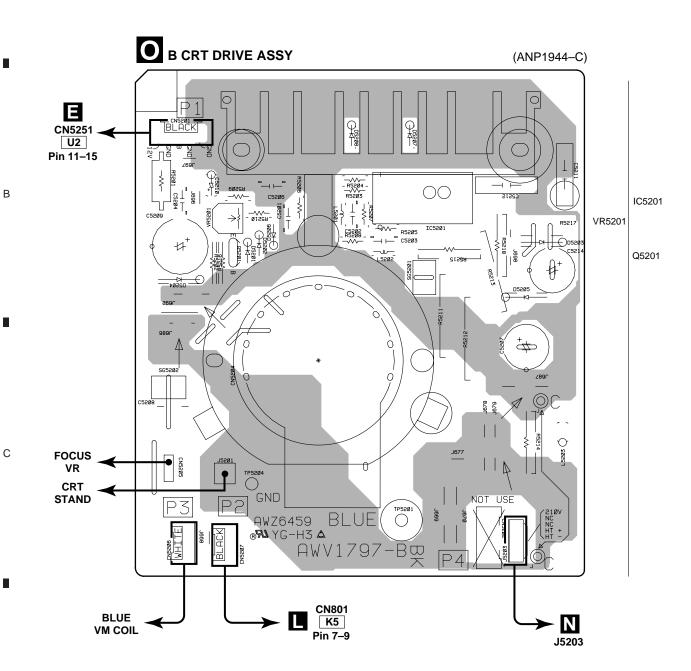
•

2

#### 4.11 B CRT DRIVE ASSY

SIDE A

3



0

D

2

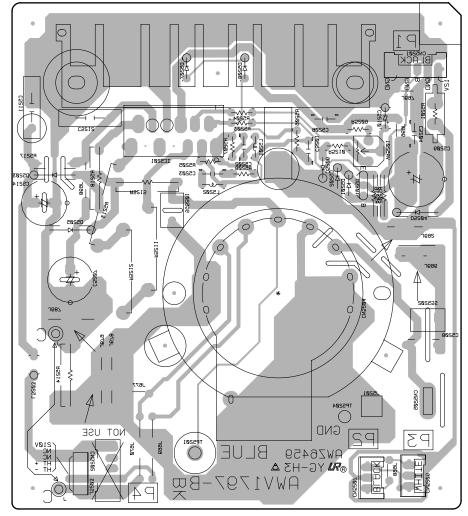
3

SIDE B

### O G CRT DRIVE ASSY

1

2



(ANP1944-C)

3

O

107

С

#### 5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The 
   \( \frac{\( \)}{\( \)}\) mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
  - When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).  $1 \Omega \rightarrow 1R0$  ...... RSIP 1 R 0 K Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
- $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RNI/4PC 5 6 2 1 F$

• Parts marked by  $\stackrel{\wedge}{\bowtie}$  are important parts which relate in X-rays radiation.

- If any of these parts need to be replaced, always replace with specified parts.
- Parts marked by × are important parts which relate in X-rays radiation. If a failure occurs in any of these parts, replace the printed circuit board ASSY where the relevant part has already been adjusted as a working component. Do not replace the actual part itself. If any part marked by × is replaced, there is danger of being exposed to X-rays.

#### ■ LIST OF WHOLE PCB ASSEMBLIES

		Part No.						
Mark	Symbol and Description	PRO-710HD	PRO-610HD	PRO-610HD	SD-582HD5	SD-532HD5	SD-532HD5	Remarks
	-	/KUXC/CA	/KUXC/CA	/KUXC/CA	/KUXC/CA	/KUXC/CA	/KBXC	
	POWER SUPPLY ASSY	AWV1872	AWV1872	AWV1872	AWV1869	AWV1869	AWV1873	
☆	DEFLECTION SERVICE ASSY	AWV1809	AWV1809	AWV1809	AWV1809	AWV1809	AWV1809	
	AMP ASSY	AWV1797	AWV1797	AWV1797	AWV1797	AWV1797	AWV1797	
	— CONV. AMP ASSY	AWZ6456	AWZ6456	AWZ6456	AWZ6456	AWZ6456	AWZ6456	
	R CRT DRIVE ASSY	AWZ6457	AWZ6457	AWZ6457	AWZ6457	AWZ6457	AWZ6457	
	— G CRT DRIVE ASSY	AWZ6458	AWZ6458	AWZ6458	AWZ6458	AWZ6458	AWZ6458	
	☐ B CRT DRIVE ASSY	AWZ6459	AWZ6459	AWZ6459	AWZ6459	AWZ6459	AWZ6459	
NSP	DIGITAL CONV. ASSY	AWV1798	AWV1798	AWV1798	A\A\\\/4002	AWV1803	A\\\\/1902	D-f t- ADD00 47
INSF	DIGITAL CONV. ASSY	AWZ6460	AWZ6460	AWZ6460	AWZ6460	AWZ6460		Refer to ARP3047 Refer to ARP3047
	— CONNECTOR ASSY	AWZ6461	AWZ6461	AWZ6461	AWZ6461	AWZ6461		Refer to ARP3047
	FRONT CONTROL ASSY	AWZ6462	AWZ6462	AWZ6462	AWZ6462	AWZ6462		Refer to ARP3047
	LED DPO ASSY	AWZ6463	AWZ6463	AWZ6463	AWZ6470	AWZ6470		Refer to ARP3047
	BNC ASSY	AWZ6464	AWZ6464		Not used	Not used	Not used	Refer to ARP3047
	SR ASSY	AWZ6465	AWZ6465	AWZ6465	AWZ6465			Refer to ARP3047
	FRONT INPUT ASSY	AWZ6466	AWZ6466	AWZ6466	AWZ6471	AWZ6471		Refer to ARP3047
	POWER SW ASSY	AWZ6467	AWZ6467	AWZ6467	AWZ6467	AWZ6467		Refer to ARP3047
	RGB SW ASSY	AWZ6468	AWZ6468	AWZ6468	AWZ6468	AWZ6468		Refer to ARP3047
	AUDIO ASSY	AWZ6472	AWZ6472	AWZ6472	AWZ6469	AWZ6469		Refer to ARP3047
	AODIO AOOT	AW20472	AW20472	AVV20472	AVV20403	AW20403	AW20403	Kelel to AKF 3047
	VIDEO ASSY	AWV1799	AWV1799	AWV1799	AWV1804	AWV1804	AWV1804	Refer to ARP3047
	SIGNAL ASSY	AWV1866	AWV1866	AWV1866	AWV1870	AWV1870	AWV1870	
	├─ RF SWITCH	AXF1088	AXF1088	AXF1088	AXF1088	AXF1088	AXF1088	
	TV FRONT END SYSTEM UNIT	AXF1102	AXF1102	AXF1102	AXF1102	AXF1102	AXF1102	
		AXF1103	AXF1103	AXF1103	AXF1103	AXF1103	AXF1103	
	SUB VIDEO SERVICE ASSY	AWV1868	AWV1868		Not used	Not used	Not used	
	SUB VIDEO ASSY	Not used	Not used	Not used	AWV1871	AWV1871	_	
	AV I/O ASSY	AWV1802	AWV1802	AWV1802	AWV1807	AWV1807	AWV1807	Refer to ARP3047

#### **■ CONTRAST OF PCB ASSEMBLIES**

#### P POWER SUPPLY ASSY

AWV1872, AWV1873 and AWV1869 are constructed the same except for the following:

Moule	Complete and Description		Damada		
Mark	Symbol and Description	AWV1872	AWV1873	AWV1869	Remarks
	L105, L106 L104 C120 C122 CN103 Y101, Y102	ATF1183 ATF1183 ACE1125 ACE1125 AKM1156 Not used	Not used ATF1183 Not used ACE1125 Not used Not used	Not used Not used Not used Not used Not used VJ1NW0-10-10/10	

#### A SIGNAL ASSY

AWV1866 and AWV1870 are constructed the same except for the following:

	Symbol and Description	Part	No.	Domonico
Mark	Symbol and Description	AWV1866	AWV1870	Remarks
	A 3/9			
	Q2462	2SC2712	Not used	
	D2477, D2478	1SS226	Not used	
	R2501, R2575	RS1/16S103J	Not used	
	R2520	Not used	RS1/16S473J	
	R2621, R2638	RS1/16S473J	Not used	
	R2624, R2625	RS1/16S223J	Not used	
	R2626	RS1/16S101J	Not used	
	R2688	RS1/16S0R0J	Not used	
	R2689	Not used	RS1/16S0R0J	
	CN2452	KM250MA7L	Not used	
	A 9/9			
	IC6301	TC74HC4053AF	Not used	
	Q6313-Q6315, Q6319-Q6321	2SA1162	Not used	
	D6307-D6309	1SS226	Not used	
	C6315-C6317	CEAT220M50	Not used	
	C6318, C6329, C6346, C6347	CKSRYB103K50	Not used	
	C6352, C6353	CKSRYB103K50	Not used	
	C6320	CEAT470M16	Not used	
	R6343-R6345	Not used	RS1/16S222J	
	R6346-R6348, R6466, R6483, R6485	RS1/16S101J	Not used	
	R6349, R6351, R6353	RS1/16S223J	Not used	
	R6350, R6352, R6354	RS1/16S153J	Not used	
	R6355-R6360	RS1/16S104J	Not used	
	R6364-R6366	RS1/16S681J	Not used	
	R6367	RS1/16S272J	Not used	
	R6368	RS1/16S122J	Not used	
	R6369–R6374	RS1/16S470J	Not used	
	R6452	RS1/16S103J	Not used	
	R6498-R6500	Not used	RS1/16S101J	

Mark No.	Description	Part No.	Mark	No	Description	Part No.
iviai k ivo.	Description	Fait No.	IVIAIR		•	
■ PCB F	PARTS LIST			D4802-D48	11, D4052–D4054, D4058 05	1SS352 1SS352
■ For SI	D-582HD5 and SD	-532HD5		D3401 D2204, D22	05	1SV232 RD6.8MB
SUB	VIDEO ASSY (AWV18	871)	COIL	S AND FII		
SEMICOND	•	,		L2203, L480		ATC1037
		ANISO 4 4EDD			01, F3202, F3402, F3403	ATF1189
IC3001 IC4301		AN5344FBP AN5395FBP		F4302, F480 F3404	U1-F4804	ATF1189 ATG1061
IC4301		CD74HCT4046AM		DL3001		ATN1040
IC4304		CXA1315M		DESCOT		ATTOTO
IC4802		HG62G010R29FB		DL4303		ATN1055
				L4310, L431	12, L4313	LCTA1R5J3225
IC3407		M51952BML		L3201, L320		LCTA4R7J3225
IC4052		M52036SP			01, L4302, L4311	LCTA5R6J3225
IC3404		MC14011BF		L4301		LCTA820J3225
IC3003 IC2204		NJM319M PD0264AM		1 2206		I CTAREC 1222E
102204		PD0204AW		L3206 L3402–L342	DE	LCTAR56J3225 QTL1013
IC2201		PD5644		L3402-L342	20	QILIUIS
IC2203		PST9146N	CAD	ACITORS		
IC3405	, IC3406	SAA4955TJ	CAI /	C3019, C32	20	CCCCCLIACODEO
IC3403		SAA4977H		,	.04, C4082, C4365–C4367	CCSQCH100D50 CCSQCH101J50
IC3401		SAA4990H		C2211, C34		CCSQCH120J50
100 400		TA 701 4055		C2207, C22		CCSQCH150J50
IC3409		TA78M05F			10, C3468, C3469	CCSQCH151J50
IC4806 IC2205		TA8667F TC74HC157AF				
IC4803		TC74HC4040AF		C4376		CCSQCH180J50
IC4051		TC74HC4053AF			41, C4823, C4828	CCSQCH221J50
				C4369 C3257		CCSQCH270J50 CCSQCH330J50
	, IC4055	TC74HC4066AF		C3402		CCSQCH331J50
	, IC4054, IC4056	TC74HC4538AF		00402		0000011001000
IC4804		TC74HCT74AF		C2210, C32	02, C3203, C3228, C3229	CCSQCH390J50
IC3408 IC3002		TC7SET04FU TK15420M		C3233, C32		CCSQCH390J50
103002		11(1342010)		C4310		CCSQCH470J50
IC3412	, IC3413	UPC29L33T		C3201, C32		CCSQCH4R0C50
IC3410		UPC78L05T		C4302, C43	47	CCSQCH560J50
Q3401		2SA1037K		C2206 C34	08, C4062, C4064	CCSQCH561J50
	Q2204, Q2205, Q2207, Q2208	2SA1162		C3409	00, 04002, 04004	CCSQCH680J50
Q3002,	Q3003, Q3016, Q3018, Q3204	2SA1162			31, C4067, C4101, C4315	CEV100M16
04057	Q4058, Q4062-Q4064	2SA1162		C3435, C43	48-C4350	CEV101M16
	Q4072, Q4078, Q4081, Q4087	2SA1162		C2222, C22	26, C2237, C2239, C3020	CEV101M6R3
	-Q4091, Q4096, Q4301, Q4302	2SA1162		00000 040	04 04047	OFWANADO
Q4306,	Q4307, Q4319, Q4328, Q4330	2SA1162		C3030, C48	114, C4099, C4377	CEV101M6R3 CEV1R0M50
Q2201,	Q2203, Q2206, Q2209, Q2210	2SC2712			31, C3237–C3239	CEV1ROM30 CEV220M16
00004	00000 00040 00045 00047	0000740		C4052, C40		CEV220M16
	Q3008–Q3013, Q3015, Q3017 Q3206, Q3210, Q3211	2SC2712 2SC2712		C3009, C30	17	CEV2R2M50
	-Q3227, Q3402, Q3403	2SC2712 2SC2712				
	-Q4056, Q4059-Q4061	2SC2712			06, C3023, C3028	CEV470M10
	-Q4070, Q4075-Q4077	2SC2712		,	56, C4051, C4054	CEV470M10
				C4036, C40	57, C4059, C4068, C4078	CEV470M10 CEV470M10
	Q4080, Q4083–Q4086, Q4088	2SC2712		,	92, C4093, C4802, C4832	CEV470M16
	-Q4095, Q4097, Q4098, Q4102	2SC2712			, - :, - :, - :	
	-Q4305, Q4308-Q4311 -Q4323, Q4325-Q4327	2SC2712 2SC2712		C3204, C32	07, C3414, C3416, C3418	CEV470M6R3
	Q4332, Q4807–Q4817	2SC2712			22, C3424, C3429, C3433	CEV470M6R3
α.οσ.,	Q.1002, Q.100.			·	61, C3463, C3464, C4075	CEV470M6R3
Q4082		2SK209		C4089	91 C4004 C4007	CEV470M6R3
D3001		1SS184		C3400, C40	81, C4094–C4097	CEV4R7M35
	D2206, D2207, D2210-D2212	1SS226		C3024		CEVNP2R2M35
	-D2234, D4056, D4057	1SS226		C3007, C30	08	CEVNPR33M50
D4059,	D4000	1SS226		C4063		CEVR10M50
				C3001, C30		CEVR33M50
				C2238, C30	115	CEVR47M50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C3012, ( C4104	C4303, C4311, C4319, C4359	CFHSQ103J16 CFHSQ331J50	■ F	or PRO	-710HD, PRO-	-610HD and
	C4103		CFHSQ332J16	ь	DO 540	MD	
	C4087, 0	C4102	CFHSQ821J50	۲	RO-510	טחט	
	C3471, (	C3472, C4055, C4355–C4358	CKSQYB224K16	D			
	C4829	04000	CKSQYB224K16			SUPPLY ASSY	
	C4060, 0 C4098	C4086	CKSQYB472K50 CKSQYB561K50	SEM		TORS	
	C4096 C4830		CKSQYB822K50	$\triangle$	IC101		AN8029
	C4084		CKSQYF104Z50		IC204		MC33167TV
	01001		ONOQ11 10-1200		IC901		MIP0253SP
	C3010, 0	C3011, C4831, C4835	CKSQYF105Z16		IC203	0.10000	NJM79M05FA
	C2224, (	C2228, C3022, C4323, C4324	CKSRYB102K50		IC102, IC90	2, 10903	ON3171-S
	C4822		CKSRYB102K50		IC103		PC817CD
		C3013, C3016, C3438	CKSRYF103Z50		IC201, IC20	2	PQ30RV11 (A)
	C4304-0	C4309, C4312, C4314, C4316	CKSRYF103Z50			7, Q210, Q906	2SA933S
						–Q905, Q907	2SC1740S
	C4320, (	C4322, C4343, C4370, C4827	CKSRYF103Z50		Q202	<b>Q</b> 000, <b>Q</b> 001	2SC2705
		C2220, C2221, C2225, C2227	CKSRYF104Z16				
		C3003, C3004, C3018, C3025	CKSRYF104Z16 CKSRYF104Z16		Q201		2SD1276A
		C3029, C3208, C3209 C3247, C3405, C3411–C3413	CKSRYF104Z16	$\triangle$	Q101		2SK1544
	U3242-0	C3247, C3405, C3411–C3413	CKSK1F104Z16		D102, D206	, D207	10DF2
	C3/15 (	C3417, C3419, C3421, C3423	CKSRYF104Z16			s, D215–D219	1SS254
		C3428, C3430–C3432, C3434	CKSRYF104Z16		D223, D224	, D226, D227	1SS254
		C3437, C3439–C3457, C3460	CKSRYF104Z16				
		C3465, C3466, C3473, C4058	CKSRYF104Z16			, D908, D910–D914	1SS254
		C4066, C4069, C4074, C4077	CKSRYF104Z16		D915		BR3371XJ30A
	•				D101 D906, D907	,	D15XB60H
		C4083, C4088, C4091, C4317	CKSRYF104Z16		D906, D907		D1NS4 D3L60
		C4340, C4344, C4346, C4801	CKSRYF104Z16		D201		DSLOO
		C4810, C4816, C4818, C4819	CKSRYF104Z16		D905		ERB06-15
	C4821, (	C4833, C4834, C4836, C4837	CKSRYF104Z16		D909		HZS2BLL
					D228		HZS4BLL
RESI	STORS				D209		HZS6A1L
	R2269, I	R2275	DCN1092		D222		HZS6B1L
	R4193		RS1/16S1001F				
	R4219		RS1/16S2001F		D214		HZS6C2L
	R4871	D 4070	RS1/16S3302F		D105, D110		MA723
	R4175, I	R4870	RS1/16S6802F		D103		MTZJ24
	R3430		RS2LMF8R2J		D104 D111		MTZJ27B RD12ESB
	R3433		RS3LMF120J		וווט		KDIZESB
	VR3003	(1 kO)	ACP1089		D106-D109	)	RD5.1ESB
	VR4052		ACP1090		D901		S1WB (A) 60B
		$(4.7 \text{ k}\Omega)$	ACP1091		D208		SF5SC3L
		,			D204		YG802C06R
	Other Re	esistors	RS1/16S □ □ □ J		D202, D203	, D205	YG911S2R
отн	ERS			COIL	S AND FII	LTERS	
	CN3002	PLUG 50-P	AKM1126		L103-L106		ATF1183
	CN3001	PLUG 44-P	AKM1155		L201, L202,	L214, L217, L218	ATH-059
	K3001-ł	K3003, K3204-K3209	AKX9002		L215, L216		ATH1046
		K3415, K4301–K4304	AKX9002		L213		ATH1102
	X2202	CERAMIC RESONATOR	ASS1015		L902		ATX1008
	CN2202	PLUG 6-P	KM250MA6L		L101, L102		ATX1021
					L901		LAU2R2J
				TRA	NSFORME	RS	
					T901		ATK1133
					T101		ATK1135
				SWIT		D RELAYS	
					RY101, RY	102	ASR1049

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
CAPA	<b>ACITORS</b> C113, C114, (	C242 C243	ACE1105		R117 R104, R105		RS1MMF151J RS1MMF333J
	C115, C120-	·	ACE1105 ACE1125		R103		RS1MMF473J
	C906	0122	ACE1138		R210		RS2MMF223J
	C905		ACE1144		R219, R249		RS2MMF3R3J
	C210 (100 pF	7	ACG-032				
	0210 (100 pi	,	7.00 002		R201		RS2MMF472J
	C116, C117,	C014 C015	ACG-501		R246, R251		RS2MMF821J
	C125 (3300 p	·	ACG1008		R109-R111		RS2MMFR22J
		C126 (4700 pF)	ACG1028		R252		RS3LMF4R7J
	C201	0120 (4700 pr )	ACH1146		R121, R122		RT10PZ120K
	C101, C102		ACH1148				
	0101, 0102		7.0111140		R218, R247		RT10PZ100K
	C205		ACH1304		R101		RT5PZ1R8K
	C215, C216		CCCSL101K2H		R248		RT7PZ120K
	C211–C214		CCCSL221K2H		VR201, VR90		VRTHS6VS102
	C209		CEHAT100M2A		Other Resisto	rs	RD1/4PU□□□J
		C234, C236, C241	CEHAT100M50				
	0200, 0220,	0204, 0200, 0241	OLI IAT TOOMSO	OTHE	ERS		
	C912		CEHAT100M50		8008	SCREW	ABZ30P100FMC
	C107, C222,	C229	CEHAT101M25		8001	SPACER	AEB1243
	C226	0220	CEHAT102M16	Æ	FU101	FUSE (10A)	AEK1069
	C108, C231,	C909	CEHAT1R0M50	Z <u>.</u>	CN901	PLUG 2–P	AKM1127
	C100, C231, C	C909	CEHAT220M50		CN101, CN10		AKM1156
	0110		OLI IA I ZZOWIJO		CIVIOI, CIVIO	00 1 L002-1	ARWITIO
	C202		CEHAT222M50		H201-H208		AKR1003
	C908		CEHAT331M10		H101, H102	FUSE HOLDER	AKR1007
	C245, C907		CEHAT331M16		8004	SCREW	BBZ30P080FCU
	C203, C204,	C207	CEHAT332M35		8009	SCREW	BBZ30P080FZK
	C235, C910,		CEHAT470M25		CN205	PLUG 10-P	KM250MA10
	0200, 0010,	0011, 0010	OLI II (1 47 OM)20		011200	1 200 10 1	111120011111110
	C901		CEHAT470M2D		CN207	PLUG 12-P	KM250MA12
	C247		CEHAT472M10		CN212	PLUG 3-P	KM250MA3
	C218, C246,	C902	CFTLA104J50		CN206	PLUG 4-P	KM250MA4
	C251		CFTLA563J50		CN204	PLUG 6-P	KM250MA6
	C103		CKCYB561K50		8000	SCREW	PBZ30P100FMC
	C217	_	CKCYE103P2H		8010	SCREW	PMB30P100FMC
	C109, C219,		CKCYF103Z50	_	8003	SCREW	PMZ30P100FZK
		C230, C237, C238	CKCYF103Z50	<u>^</u>	FU201	FUSE (4A)	REK1082
	C244		CKCYF473Z50	<u>^</u>	FU204	FUSE (5A)	REK1083
	C232, C916		CQMA104J50	Æ	FU202, FU20	3 FUSE (6.3A)	REK1085
	C104		CQMA182J50				
	C104 C106		CQMA473J50				
	C105		CQMA822J50				001/
	0.00		O QIVII IOLLOGO	L	DEFLECT	TON SERVICE A	SSY
RESI	STORS			SEMI	CONDUCT	ORS	
	R102, R901		ACN1128		IC303, IC601		NJM4558DXP
	R120, R123 (	2.2 MO)	RCN1080	Æ	IC301		TA8638N
	R106	2.2 10152)	RD1/2MMF100J	Z÷\		Q604, Q605, Q804	2SA1145
	R903		RD1/4MUF103J		Q806	Q004, Q000, Q004	2SA1145
					Q808		2SA1837
	R112		RD1/4MUF681J		Q000		25A1057
	R906		RN1/4PC1501F		Q302, Q306,	Q311, Q313, Q319	2SA933S
	R207		RN1/4PC1502F		Q321, Q322,		2SA933S
	R216		RN1/4PC1503F	×	Q607, Q608		2SA933S
	R212, R213		RN1/4PC1603F		Q751, Q801		2SA933S
	R208, R907		RN1/4PC1801F			Q305, Q307, Q310	2SC1740S
	11200, 11307		1311/71 010011		200., 900-1,		
	R209		RN1/4PC2701F		Q312, Q318,	Q320, Q327, Q602	2SC1740S
	R204		RN1/4PC2702F		Q614, Q752,	Q802	2SC1740S
	R205, R206		RN1/4PC3301F		Q314, Q317,	Q603, Q606, Q803	2SC2705
	R214		RN1/4PC3901F		Q805, Q807		2SC2705
	R217		RN1/4PC6801F		Q308, Q601		2SC3332
			<del> </del>				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	Q609		2SC3468		C313		CEHAT331M16
$\triangle$	Q753, Q754		2SC4686A		C810		CEHAT3R3M2C
۵	Q809		2SC4793		C623, C751	C200 C204	CEHAT470M25
$\stackrel{{m \Lambda}}{{m \Lambda}}$	Q309 Q612		2SC5043 2SC5143		C351, C352, C634	C360, C361	CEHAT471M16 CEHAT4R7M2E
<u> </u>	Q012		2303143		C034		CENAT4R/IVIZE
	Q324, Q613		2SC5197		C309, C341,	C343	CEHAT4R7M50
	Q610		2SD1276A	$\triangle$	C601, C602		CFPAB182H3C
	D302, D304,		10DF2	Â	C320		CFPAB332H3C
		D314, D322, D603	1SS254	<u>^</u> ^ <u>^</u> ^ <u>^</u> ^	C321		CFPAB472H3C
	D608, D609,	D611, D614, D615	1SS254	∠!\	C319, C322		CFPMAB334J2G
_	D621, D625,	D751-D757	1SS254		C323, C603		CFTLA105J50
Æ	D622, D623		2NU41		C312		CFTLA224J50
	D321	D040 D040	BR3371XJ30A		C329		CFTLA683J50
	D328, D329, D613	D343, D610	ERA22-02 ERB06-15		C311 C303		CKCYB102K50 CKCYB103K50
	D013		EKD00-13		C303		CKCTBTUSKSU
^	D303, D602		ERB93-02L3		C607		CKCYB222K50
Æ	D316, D317		ERD07-15		C628		CKCYB332K2H
	D801, D802 D315, D327,	D604 D607	MTZJ39 RD12ESB		C327, C611 C627		CKCYB561K50 CKCYB682K50
	D313, D327, D344, D624	D004-D007	RD5.1ESB1		C627 C637, C814,	C819	CKCYE103P2H
	D044, D024		NBO. IEODI			0010	ONO 12 1001 211
	D612		RD7.5ESB2		C615	0000 0000 0040	CKCYE222P2H
	D627	D000	RD9.1ESB1			C333, C338–C340	CKCYF103Z50
	D313, D803-	-D806	S5688G			C609, C610, C614 C626, C629, C753	CKCYF103Z50 CKCYF103Z50
COII	S AND FIL	TERS			C801, C803,		CKCYF103Z50
OOIL	SG751	TENO	AEX1024				
	L307, L308		ATH-059		C804, C805,	C816	CKCYF473Z50
$\wedge \times$	T601		ATK1136		C813		CQMA104K2E
Æ	T302, T602		ATK1144		C307 C811, C812		CQMA471J50 CQMA472K2E
$\triangle$	T301		ATK1145		C302		CQMA561J50
	L303-L306,	L309, L601–L603	ATX1008		0005		00144.000.150
	L310, L605	,	LTA152J		C305 C301		CQMA682J50 CQPA102J2A
					C301		CQPA333J2A
CAP	ACITORS				C306		CQPA821J2A
$\triangle$	C325 (100 pl	F)	ACG-032				
	C754, C755	(4700 pF)	ACG1028	RESI	STORS		
$\triangle$	C324 (1 µF/1		ACH-372		R769		ACN1011
Δ	C636 (1 µF/1		ACH-372		R661 (27 Ω)		ACN1136
$\triangle$	C604 (10 μF	(160V)	ACH1117		R826 ` ´		RD1/2MMF100J
	C331 C335	C358, C606, C802	CCCSL101J50		R815		RD1/2MMF332J
	C336, C612	0000, 0000, 0002	CCCSL101K2H		R770, R772-	-R776	RD1/2PM114J
	C820-C822		CCCSL220J50		D624		DD4/2DM4221
	C815		CCCSL221J50		R631 R365		RD1/2PM122J RD1/2PM153J
	C326, C342		CCCSL470J50		R648		RD1/2PM154J
	0004		OF ANDODOMES		R771, R777-	-R781	RD1/2PM184J
	C304		CEANP2R2M50		R366, R618,		RD1/2PM223J
	C806, C807 C817		CEAT101M25 CEAT470M50				
	C334		CEHAQ1R0M2C		R757-R768		RD1/2PM224J
	C353, C616		CEHAT100M2D		R813, R814		RD1/2PM270J
					R801		RD1/2PM272J
	C619, C621,		CEHAT100M50		R823, R824 R628		RD1/2PM2R2J RD1/2PM333J
		C349, C355, C608	CEHAT101M25		. 1020		112 1,21 1110000
	C330, C605		CEHAT101M50		R617		RD1/2PM563J
	C359		CEHAT102M35	$\triangle$	R395, R634		RD1/4LMF100J
	C357, C633		CEHAT1R0M50		R635		RD1/4MUF100J
	C620, C809,	C818	CEHAT220M2D	^	R827, R828		RD1/4MUF560J
	C635		CEHAT220M50	$\triangle$	R629, R630		RN1/2PC3902F
	C618		CEHAT220M63				
	C328, C624,	C625	CEHAT221M25				
	C332, C613		CEHAT330M35				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	R328		RN1/4PC1002F		CN307	PLUG 5-P	KM250MA5
	R646, R65	50	RN1/4PC1003F		CN308	PLUG 6–P	KM250MA6
×	R645	. •	RN1/4PC1003F		CN306	PLUG 6-P	KM250MA6R
, ,	R419		RN1/4PC1202F		CN801	PLUG 9–P	KM250MA9
×	R639		RN1/4PC1202F		304, 605	SCREW	PMB30P160FZK
	R318		RN1/4PC1203F		604 606	752, 802 SCREW	PMZ30P100FZK
	R302		RN1/4PC1303F		513	SCREW	VBZ30P200FMC
	R372		RN1/4PC1503F		608	SCREW	VPZ40P120FMC
	R753		RN1/4PC2202F		000	SCKLW	VFZ40F1Z0FIVIC
	R327		RN1/4PC2702F RN1/4PC2702F				
	R752		RN1/4PC3302F		001117		
	R783		RN1/4PC3601F		CONV.	AMP ASSY	
	R755		RN1/4PC4701F		ICONDU		
	R754		RN1/4PC56R0F	SEIVI		STURS	
	R373, R42	04			IC1002		CA0007AD
	K3/3, K42	:1	RN1/4PC6801F		IC1004,IC	1005	M5220P
	D040		DN4/4D00004E		IC1003		PA0053B
×	R640		RN1/4PC6801F		IC901, IC9	903	STK392-110
	R782		RN1/4PC7501F		IC1001		TC4052BP
×	R644	_	RN1/4PC7502F				
	R301, R64		RN1/4PC8201F		Q902, Q90	05, Q908, Q909, Q917	2SA933S
	R338, R60	)4	RS1MMF100J		Q914	30, 4000, 4000, 401.	2SB950A
						03, Q906, Q907	2SC1740S
	R398		RS1MMF1R5J			12, Q915, Q916	2SC1740S
	R809, R81	0	RS1MMF472J		Q904, Q9		2SC2878
	R658, R65	59	RS2MMF101J		Q904, Q9	10	2302070
	R336, R33	37, R339, R602, R603	RS2MMF1R0J		0040		00040704
	R621, R62		RS2MMF1R8J		Q913	045 0007 0044	2SD1276A
		<del></del>			,	015, D907–D911	1SS254
	R333, R60	11	RS2MMF222J		D921, D92	22, D924	1SS254
	R819–R82		RS2MMF271J		D923		BR3371XJ30A
	R358, R35		RS2MMF2R2J		D1001-D1	013	RD12ESB
	R355	99	RS2MMF390J				
	R660		RS2MMFR56J		D901-D90	06, D915–D920	S5688G
	R822, R82	25. R831	RS3LMF471J	COIL	S AND F	ILTERS	
<u>^</u>	R392	,	RT5PZ561K		L901, L90	2	ATH-059
×	VR601		VRTHS6VS102		L903, L90	4	ATX1008
	VR301		VRTHS6VS222				
	VR603		VRTHS6VS223	CAD	ACITORS	<u>.</u>	
	V11003		VICTI 100 V 0223	CAF			00001.404.100
	VR302		VRTHS6VS473			022, C1023, C1025, C1041	CCCSL101J50
×	VR602		VRTHS6VS473		C909, C91		CCCSL151J50
×		00	RD1/4PU102J			9, C934–C936	CCCSL220J50
	R637, R63	00			C905		CEANP101M25
×	R642		RD1/4PU821J		C953		CEAT100M50
×	R643		RD1/4PU822J		C1013 C1	017, C1019, C1029, C1030	CEAT101M10
	Other Res	istors	RD1/4PU □□□J		C1015_C1	1017, 01019, 01029, 01030	CEAT101M10
					C906		CEAT101M10
ОТНЕ	-DC				C1039		CEAT101M25 CEAT220M50
OIIII		000=144	1511000			027	CEAT220M30 CEAT330M16
	511	SCREW	ABA1099		C1036, C1	1037	CEATSSUIVITO
	514	SCREW	ABZ30P100FZK		04000		OF A T 470 M40
	J602	H.V.RETURN WIRE	ADX2486		C1038		CEAT470M10
	J601	1P READ WIRE	ADX2492		C1004, C9		CEAT470M25
	J603	HV CABLE (400)	ADY1043			22, C938, C939	CEHAT102M25
					C920, C92	23, C937	CEHAT102M35
	301, 601	ISOLATION SHEET	AEB1358		C952		CEHAT221M25
	602	NYLON BINDER	AEC-093				
Æ		N303 PLUG 3–P	AKM1055		C908		CEHAT221M35
<u>د ، </u>	CN751	PLUG 3–P	AKM1055		C949		CEHAT332M25
	107	SHIELD CASE	ANK1510		C948		CEHAT332M35
	101	3. IILLD 3, 10L	7.111.1010		C940		CEHAT471M35
	305, 607	SCREW	BBZ30P080FCU		C1040		CFTYA184J50
	512	SCREW			0.0.0		3
			BBZ30P080FZK		C1028, C1	034	CFTYA224J50
	CN304	PLUG 12–P	KM250MA12		C1026, C1		CKCYB102K50
	CN305	PLUG 13–P	KM250MA13			26, C941–C943	CKCYB331K50
	CN309	PLUG 4–P	KM250MA4			-	
						6, C931–C933	CKCYB681K50
					C 1002, C	003, C1005–C1012, C1018	CKCYF103Z50

Mark 1	No.	Description	Part No.	Mark	No.	Description	Part No.
(	C1031-C1	021, C1026, C1027 033, C901–C904, C907 0, C944, C946, C947 4–C957	CKCYF103Z50 CKCYF103Z50 CKCYF103Z50 CKCYF103Z50	RES	R5115 (47 R5116 (22 R5118 (47	0 Ω)	ACN1129 ACN1131 ACN1133
RESIS	TORS				R5117 R5101		RD1/2LMF100J RS1MMF6R8J
F F F	R922 R935, R93	5 0–R942, R956 6, R957, R958 9, R978–R980	RD1/2MMF470J RS1MMF470J RS1MMF562J RS1MMFR47J RS2MMF121J		R5112–R5 VR5101 Other Resi		RS3LMF822J VRTHS6VS222 RD1/4PU □ □ □ J
F	R985		RS2MMF1R2J	OTH		007.000//57	11/04000
F F	R960, R96 R930, R93 R976, R97 R914, R98	1, R981–R983 7	RS2MMF1R5J RS2MMF221J RS2MMF2R2J RS2MMFR47J		5104 5107, 5108 5103–5106 CN5105 CN5106		AKG1006 BBZ30P080FCU BPZ30P100FZK KM250MA3 KM250MA3R
F F F	R937, R93 R932 R998 R939 Other Resi		RS3LMF1R5J RS3LMF221J RS3LMFR68J RS3LMFR82J RD1/4PU □ □ □ J		CN5102 CN5101 5101, 5102	PLUG 5-P PLUG 5-P 2 SCREW	KM250MA5B KM250MA5R PMB30P160FZK
OTHER	RS			NI	O ODT	DDIVE ACCV	
( ( ( ( (	903 CN905 CN904 CN901 CN903 CN902 901	SCREW PLUG 10-P 16P PLUG PLUG 6-P PLUG 6-P PLUG 6-P SCREW SCREW	BBZ30P080FCU KM200IA10 KM200IA16 KM250MA6 KM250MA6B KM250MA6R PMB30P160FZK PMZ30P100FZK	SEM	ICONDUC IC5151 Q5151 D5158 D5157 D5151-D5	156	TDA6120QN2 2SC1740S MTZJ3.9B MTZJ5.6A S5688G
					SG5151,S		AEX1024
MR	CRT	DRIVE ASSY			L5152 L5151		LAU2R2J LAU3R3J LTA562J
	CONDUC				L5153		LTAS62J
  )   	IC5101 Q5101 D5108 D5107 D5101–D5		TDA6120QN2 2SC1740S MTZJ3.9B MTZJ5.6A S5688G	CAP	ACITORS  C5158 (10  C5157, C5  C5153  C5151  C5152		ACG1001 ACH1318 CCCSL120J50 CCCSL560J50 CCCSL7R0D50
COILS	AND F	ILTERS					
L L	SG5101,S L5102 L5101 L5103	G5102	AEX1024 LAU2R2J LAU3R3J LTA562J		C5160 C5159, C5 C5161, C5 C5154, C5		CEAT101M25 CEAT222M16 CKCYE103P2H CKCYF103Z50
( ( (	CITORS C5108 (10 C5107, C5 C5103 C5101 C5102		ACG1001 ACH1318 CCCSL120J50 CCCSL390J50 CCCSL7R0D50	RES	R5164 (47 R5165 (22 R5168 (47 R5167 R5151	0 Ω) 0 Ω)	ACN1129 ACN1131 ACN1133 RD1/2LMF100J RS1MMF6R8J
(	C5110 C5109, C5 C5111, C5 C5104, C5	113	CEAT101M25 CEAT222M16 CKCYE103P2H CKCYF103Z50		R5161–R5 VR5151 Other Resi		RS3LMF822J VRTHS6VS222 RD1/4PU □ □ □ J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
OTHE	RS			Λ	CICNIA	ACCV	
• • • • • • • • • • • • • • • • • • • •		LEAD WITH HOUSING	ADX2493	A	SIGNAL	_ ASSY	
		CRT SOCKET	AKG1006	SEMI	ICONDU	CTORS	
	5157, 5158	SCREW	BBZ30P080FCU		IC2454		24LC32A(I)P
	5153–5156		BPZ30P100FZK		IC7703		CM0010AF
	CN5156	PLUG 3–P	KM250MA3		IC6305		CXA1315M
	CN5157	PLUG 3-P	KM250MA3B		IC2801		CXA2094Q
		PLUG 5-P	KM250MA5		IC7002		IS41C16256-35K
	5151, 5152		PMB30P160FZK		IC7704		KIA431F
	,				IC7704		LC32V4265JL-25S
					IC7503		MC14053BF
					IC2451, IC	2802	MC14066BF
	3 CRT D	RIVE ASSY			IC7103, IC	27303	NJM2233BM
					1001-0		PP-0404
SEIVII	CONDUC.	IORS			IC2452		PD5643A
	IC5201		TDA6120QN2		IC2701 IC2702		PQ05DZ51 PQ09DZ11
	Q5201 D5208		2SC1740S MTZJ3.9B		IC7004, IC	27701	PQ3DZ13
	D5206 D5207		MTZJ5.6A		IC2453		PST9146N
	D5201-D52	06	S5688G				
					IC7101, IC	27300	TA1270BF
COILS	S AND FIL	TERS			IC7308		TA78M05F
	SG5201,SG		AEX1024		IC6301–IC	26304	TC74HC4053AF
	L5202	0202	LAU1R0J		IC7505 IC7504		TC74HC4066AF TC74HC4538AF
	L5201		LAU4R7J		107304		10/4H04030AF
	L5203		LTA562J		IC7307		TC90A45F
						27302, IC7304, IC7502	TK15420M
CAPA	CITORS				IC7001		UPD64082GF-3BA
	C5208 (100	0 pF)	ACG1001			2454, Q2701, Q2710, Q2720	2SA1162
		14 (22 μF/250V)	ACH1318		Q2804, Q	6301, Q6303, Q6304, Q6306	2SA1162
	C5201–C52	03	CCCSL220J50		O6209 O	6310, Q6313–Q6322	201162
	C5210	16	CEAT101M25 CEAT222M16			6325, Q6361, Q6363	2SA1162 2SA1162
	C5209, C52	10	CLA 1222IVI 10			7003, Q7009, Q7123, Q7316	2SA1162
	C5211, C52	13	CKCYE103P2H			7319, Q7501, Q7504, Q7506	2SA1162
	C5204, C52		CKCYF103Z50		Q7528		2SA1162
					02452 0	2455–Q2457, Q2459–Q2464	2SC2712
RESIS	STORS					2705, Q2707, Q2711, Q2716	2SC2712
	R5214 (47 ©		ACN1129			2801–Q2803, Q6328–Q6360	2SC2712
	R5215 (220	,	ACN1131			7001, Q7004–Q7008	2SC2712
	R5218 (470	Ω)	ACN1133		Q7010-Q	7015, Q7104, Q7105, Q7111	2SC2712
	R5217 R5201		RD1/2LMF100J RS1MMF6R8J				
	13201		INSTIMINI ONOS			7115, Q7116, Q7303, Q7304	2SC2712
	R5211-R52	13	RS3LMF822J			7314, Q7315, Q7317, Q7320 7507–Q7527, Q7529, Q7531	2SC2712 2SC2712
	VR5201		VRTHS6VS222		,	7307, Q7308, Q7310	2SC4213
	Other Resis	tors	RD1/4PU □□□J		Q2451, Q Q2458	1301, Q1300, Q1310	2SJ461
					00		
OTHE	RS					2455, D2490	1SS184
		LEAD WITH HOUSING	ADX2493			2457, D2460–D2469	1SS226
		CRT SOCKET	AKG1006			2484, D2486, D2488	1SS226
	5207, 5208		BBZ30P080FCU			2703, D2706, D2707, D2710	1SS226
	5203-5206 CN5206	PLUG 3–P	BPZ30P100FZK KM250MA3		D2001, D2	2802, D6301–D6309	1SS226
	CINDZUO	1 LUG J-1	CAIVICOUIVIA		D6316-D6	6320	1SS226
	CN5207	PLUG 3–P	KM250MA3B			2453, D2458, D2459, D2485	1SS352
		PLUG 5–P	KM250MA5B			2705, D6310, D6313, D7504	1SS352
	5201, 5202	SCREW	PMB30P160FZK		D2704		UDZ30B
					<b></b>		
				COIL	S AND F	ILTERS	
					L2457	2000 57704 57704	ATF-163
						002, F7701–F7704	ATF1189
					L2451, L2 L7105	452	ATX1035 LCTA5R6J3225
					L7105 L7306, L7	307	LFA120J
					555, _/		/ 1.1200

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	L7107, L750	06	LFA5R6J		C7033. C	7038, C7039, C7049	CEHAT101M10
	L7008, L701		LFEA100J		C7019, C		CEHAT1R0M50
	L7302	,	LFEA101J		, -		
	L7009, L701	12	LFEA150J		C2476		CEHAT220M50
		10, L7303, L7505	LFEA220J		C7034, C	7036	CEHAT221M10
					C2478		CEHAT222M10
	L7001		LFEA4R7J		C2479		CEHAT222M25
	L2707-L271	10, L7002, L7003	QTL1013		C2453, C	2455, C7045, C7143, C7529	CEHAT470M16
	L7705, L770	06	QTL1013		C2451, C	2452	CEHAT4R7M50
CAR	ACITORS				C7107, C		CFHS223J16
CAF		E/FOV/)	A CL 14400		C2810		CFHSQ272J50
	C2812 (3.3)		ACH1128 ACH1129		C2811		CKSQYB473K50
	C7014	1F/30V)	CCSQCH102J50		C7114, C	7317	CKSQYB474K16
	C7014 C7140, C73	40	CCSQCH120J50				
	C7140, C73		CCSQCH121J50		C7745-C	7753, C7761–C7763, C7769	CKSQYF105Z16
	07001, 070	102, 07004	0000011121000		C7772		CKSQYF105Z16
	C7355, C73	57	CCSQCH181J50		C7754, C		CKSQYF224Z25
	C6373, C63		CCSQCH470J50			2464, C2702, C2704, C2723	CKSRYB102K50
	C7102, C73		CCSQSL222J50		C2725		CKSRYB102K50
	C7008		CCSQSL391J50		00457 0	0.450 00400 00405	01/00/00/00/00
	C7057, C70	63	CCSRCH100D50			2458, C2460, C2463, C2465 2472, C2474, C2706, C2707	CKSRYB103K50
						, - ,	CKSRYB103K50
	C2819, C28	20, C7520, C7521	CCSRCH101J50			2712, C2717–C2719, C2727 2732, C2737, C2742, C2805	CKSRYB103K50 CKSRYB103K50
	C7523, C75	24, C7526, C7527, C7553	CCSRCH101J50			2823, C6307, C6311, C6318	CKSRYB103K50
	C7555, C75	56	CCSRCH101J50		02021-0	2023, 00307, 00311, 00310	CNONTETIONO
	C7550		CCSRCH180J50		C6321 C	6328-C6331, C6333	CKSRYB103K50
	C7047, C70	50	CCSRCH220J50			6338, C6340, C6342–C6347	CKSRYB103K50
						6353, C6356, C6358–C6362	CKSRYB103K50
	C7002		CCSRCH270J50			6367, C7001, C7004–C7007	CKSRYB103K50
		59, C7356, C7372, C7532	CCSRCH330J50			7013, C7015–C7018	CKSRYB103K50
	C7535, C75		CCSRCH330J50		0.000		0.10.1.2.00.100
	C2701, C27		CCSRCH470J50		C7020-C	7022, C7032, C7035, C7037	CKSRYB103K50
	C7058, C70	164	CCSRCH560J50			7044, C7046, C7048, C7056	CKSRYB103K50
	07540		CCCDCI 1000 150		C7117, C	7120, C7127, C7129, C7144	CKSRYB103K50
	C7512	709, C2713, C2716, C2724	CCSRCH680J50 CEAT100M50			7305, C7310, C7319, C7323	CKSRYB103K50
		41, C6325, C6348	CEAT100M50		C7327, C	7331, C7333, C7348, C7350	CKSRYB103K50
		26, C7329, C7330, C7522	CEAT100M50				
	,	25–C7730, C7760	CEAT100M50			7354, C7366–C7369, C7371	CKSRYB103K50
	0.000, 0	20 07.00, 07.00	02/11 100M00			7503, C7507, C7514, C7528	CKSRYB103K50
	C2744, C28	18, C7308, C7309, C7515	CEAT101M10			7558, C7701–C7703	CKSRYB103K50
	C7706, C77		CEAT101M10			7715, C7717–C7722, C7731	CKSRYB103K50
	C7105		CEAT102M6R3		C7733, C	7735–C7744, C7766	CKSRYB103K50
	C7358		CEAT1R0M50		00450 0	7400 07400 07440 07000	CKCDVD404K4C
		06, C6315-C6317	CEAT220M50			7106, C7108–C7113, C7306	CKSRYB104K16
					C7311–C	7316, C7724, C7767, C7768	CKSRYB104K16 CKSRYB104K16
		70, C7135, C7337–C7339	CEAT220M50		C7770, C		CKSRYB123K50
	C7511, C77	-	CEAT221M10		C7756, C	7758	CKSRYB152K50
	,	04, C7302, C7303	CEAT2R2M50		01100, 0	7700	ONON I DIOZNOO
		49, C7351, C7505, C7506	CEAT470M10		C2817		CKSRYB562K50
	C7548, C77	16, C7734	CEAT470M10		C2461, C	2480	CKSRYF104Z16
	00000 000		05474701440		C7764		CKSRYF473Z50
	,	32, C6339, C6355, C6357	CEAT470M16				
		65, C7128, C7130, C7332	CEAT470M16	RES	STORS		
	C7335, C73		CEAT470M16	ILC		10504 DZZ40 DZZ40 (00 kg)	4) A ON 17070
		20, C2730, C2739	CEAT471M10		,	2584, R7710–R7713 (22 kΩ×	,
	C2708, C27	21, 02/20	CEAT471M6R3			2476, R2481–R2487, R2496 2499, R2502, R2510, R2525	DCN1092
	C2801 C20	03, C2808, C2809, C2813	CEAT4R7M50			.7720, R7753 (100 Ω×4)	DCN1092 DCN1092
		25, C6326, C6349	CEAT4R7M50 CEAT4R7M50			.7720, R7753 (100 Ω ×4) .2554, R2567 (10 kΩ)	DCN1092 DCN1094
	C7115, C73		CEATR22M50		112J24, N	.2007, I\2007 (10 N22)	DOINTO34
	C2804		CEHAQ100M50		R2728		RD1/2MMF271J
	C2802, C28	15	CEHAQ1R0M50		R7730		RS1/16S1002F
	J2002, 020		J_III (Q II (ONIO)		R7729		RS1/16S1502F
	C2806, C28	307	CEHAQ4R7M50		R2806		RS1/16S6202F
	C7525	-	CEHAT100M50		Other Re	sistors	RS1/16S □ □ □ J
		62, C2467, C2473, C7025	CEHAT101M10				
	- ,	. ,					

Mark No.	Description	Part No.	Mark	No.	Description	Part No.
OTHERS				IC4803		TC74HC4040AF
	0705 DI II O 00DD	ABE4474		IC4051		TC74HC4053AF
,	2705 PULG CORD	ADE1171		IC4053,	IC4055	TC74HC4066AF
J2703		ADX2496		IC4054,		TC74HC4538AF
J2451		ADX2499		IC4804		TC74HCT74AF
J2701		ADX2567				
CN245	54 PLUG 50–P	AKM1126		IC3204		TC74LCX541FT
ONIZE	04 DILIO 44 D	A1/B44455		IC3502,	IC3503	TC7SET04FU
CN750		AKM1155		IC3209,	IC3802	TC7SET08FU
X2451	CERAMIC RESONATOR 2. X7301 CERAMIC RESONATOR	ASS1015		IC3002		TK15420M
	, X7301 CERAMIC RESONATOR , X7300 (3.58 MHz)	ASS1019 ASS1138		Q2202,	Q2204, Q2205, Q2207, Q2208	2SA1162
X7101 X7001	,	ASS1130 ASS1140				
7,001	CRISIAL RESONATOR	A331140		Q3002,	Q3003, Q3016, Q3018	2SA1162
CN245	57 L–PLUG (8P)	KM250MA8L		Q3604-	Q3606, Q4003, Q4005	2SA1162
CN245	` ,	KM250MA8LR		Q4057,	Q4058, Q4062-Q4064	2SA1162
CN245	` ,	S12B-PH-SM3		Q4071,	Q4072, Q4078, Q4081, Q4087	2SA1162
CN245		S3B-PH-SM3		Q4089-	Q4091, Q4096, Q4301, Q4302	2SA1162
CN270		S5B-PH-SM3				
CNZ/	OT CONNECTOR	33D-F11-31VI3		Q4306,	Q4307, Q4319, Q4328, Q4330	2SA1162
CN245	53 CONNECTOR	S8B-PH-SM3		Q4001,		2SA1669
ONZTO	55 GOINILOTOIN	00B 1 11 0W3			Q2203, Q2206, Q2209, Q2210	
					Q3008–Q3013, Q3015, Q3017	
				Q3201-	Q3213, Q3601–Q3603, Q4002	2SC2712
D = 014/11	011 (4)(=(000)					
RF SWIT	CH (AXF1088)				Q4006, Q4008, Q4051–Q4056	2SC2712
RF SWITCH h	as no service part.				·Q4061, Q4065–Q4070	2SC2712
					·Q4077, Q4079, Q4080	2SC2712
					Q4086, Q4088, Q4092–Q4095	
TV FDON	IT END CYCTEM LINUT	- (AVE4400)		Q4097,	Q4098, Q4102, Q4303–Q4305	2SC2712
	IT END SYSTEM UNIT	` '		0.4000	0.10.1.1 0.100.1 0.1000	0000740
TV FRONT EN	ID SYSTEM UNIT has no service p	oart.			Q4311, Q4321–Q4323	2SC2712
					Q4327, Q4331, Q4332	2SC2712
				Q4807-	Q4817	2SC2712
TV FROM	IT END SYSTEM UNIT	(AXF1103)		Q4082		2SK209
		•		D3001		1SS184
IV FRONT EN	ND SYSTEM UNIT has no service p	oart.		D2203	D2206, D2207, D2210-D2212	1SS226
					D2234, D4056, D4057	1SS226
				D4059,		1SS226
П.					D4052–D4054, D4058	1SS352
SUB	VIDEO SERVICE ASS	SY (AWV1868)		D4802-		1SS352
SEMICONE		,		D 1002	2 1000	100002
		ADOOFTADT		D2204,	D2205	RD6.8MB
IC400°		AD8057ART		•		
IC300		AN5344FBP	COII	SAND	FILTERS	
IC430		AN5395FBP	COIL			ATC4007
IC4304		CXA1315M		L2203, I		ATC1037
IC320 <sup>-</sup>	1	CXA3106Q			F3202, F3203, F3401, F3801	ATF1189
10000	2	CVD0000AO		DL3001	F4801–F4804	ATF1189 ATN1040
IC3203		CXD2303AQ				
	1, IC3604	EM636327Q-8		DL4303		ATN1055
IC4802		HG62G010R29FB M52036SP		1.2004	L3603, L3605	LCTA1R2J3225
IC4052				L4310,		LCTA1R2J3225 LCTA1R5J3225
IC3602	2	MB40958PFQ			L3604, L3606	LCTATR333225 LCTA2R2J3225
10000	2	NI INACAONA			L3205, L3207	
IC3003		NJM319M			L3205, L3207 L3001, L3201, L3203, L3204	LCTA4R7J3225 LCTA5R6J3225
IC2204		PD0264AM		LZZUI,	LJUU I, LJZU I, LJZUJ, LJZU4	FO 1 WOL001975
IC380 <sup>-</sup> IC220 <sup>-</sup>		PD3420A8 PD5644		13206	L4302, L4311	LCTA5R6J3225
IC220°		PE5066A		L3206, 1	LT002, LT0	LCTA820J3225
10340		. 2000A		_ 1001		_0.7.02000220
IC350	1	PE5067A	CVB	ACITO	26	
IC2203		PST9146N	CAP			A O E 4 4 0 0
IC3206		TA78M05F			C3207 (0.47 µF/16V)	ACE1130
IC4806		TA8667F			C3265, C3654	CCSQCH100D50
IC220		TC74HC157AF			C3264, C3645–C3647, C4082	CCSQCH101J50
				C4365-	U430/	CCSQCH101J50
				C2211		CCSQCH120J50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C2207, C22	08	CCSQCH150J50		C4827		CKSRYF103Z50
	C3655, C36		CCSQCH180J50		C2209, C22	20, C2221, C2225, C2227	CKSRYF104Z16
		41, C4823, C4828	CCSQCH221J50			03, C3004, C3018, C3025	CKSRYF104Z16
	C4369	+1, 04023, 04020	CCSQCH270J50			29, C3201, C3216–C3218	CKSRYF104Z16
		47 C2266 C2260				23, C3225–C3232, C3234	CKSRYF104Z16
	C3243, C32	47, C3266, C3269	CCSQCH330J50		C3221-C32	23, U3225–U3232, U3234	CKSKYF104Z16
	C3245, C32	67, C3270	CCSQCH331J50			40, C3242, C3248, C3249	CKSRYF104Z16
	C2210		CCSQCH390J50			57, C3263, C3276	CKSRYF104Z16
		68, C3271, C4310	CCSQCH470J50			15, C3502–C3505	CKSRYF104Z16
	C3620, C36	48, C3649, C4302, C4347	CCSQCH560J50		C3507-C35	19, C3603–C3615	CKSRYF104Z16
	C2206, C40	62, C4064	CCSQCH561J50		C3621, C36	22, C3625–C3639, C3642	CKSRYF104Z16
	C3202		CCSQSL222J50			05, C3816, C3818, C4001	CKSRYF104Z16
	C3416, C35	20, C3616, C3618, C3619	CCSRCH220J50		C4058, C40	61, C4066, C4069, C4074	CKSRYF104Z16
	C3817		CCSRCH220J50		C4077, C40	79, C4083, C4088, C4091	CKSRYF104Z16
	C3814, C38	15	CCSRCH7R0D50			21, C4340, C4344, C4346	CKSRYF104Z16
	,	31, C3219, C3239, C4067	CEV100M16			03, C4810, C4816	CKSRYF104Z16
					,	,	
	C4101, C43		CEV100M16			19, C4821, C4833, C4834	CKSRYF104Z16
	C4348-C43		CEV101M16		C4836, C48		CKSRYF104Z16
	C2222, C22	26, C2237, C2239, C3020	CEV101M6R3		C3206, C32	61	CKSRYF223Z50
	C3030, C34	01, C3501, C3506	CEV101M6R3				
		02, C4804, C4817	CEV101M6R3	RESI	STORS		
			05)//00//5			22, R3801, R3808	DCN1090
		14, C3640, C4099, C4377	CEV1R0M50			21, R3826, R3831	DCN1090
	C4052, C40		CEV220M16		R2269, R22		DCN1092
	C3009, C30	17	CEV2R2M50		R3809, R38		DCN1100
	C3005, C30	06, C3023, C3028	CEV470M10		,		
	C4004, C40	05, C4051, C4054	CEV470M10		R3291, R40	22, R4193	RS1/16S1001F
	0	0 0 0	05)//501//0		R4008, R40	12	RS1/16S1202F
		57, C4059, C4068, C4078	CEV470M10		R3207, R32		RS1/16S1601F
	C4080, C43		CEV470M10		R4004, R40		RS1/16S2001F
	C4002, C40	03, C4065, C4092, C4093	CEV470M16		R4002, R40		RS1/16S2002F
	C4802, C48	32	CEV470M16		R4009	21	RS1/16S3001F
	C3208, C32	09, C3220, C3224, C3233	CEV470M6R3		114003		10000011
	C2241 C22	44, C3250–C3252, C3254	CEV470M6R3		R3206		RS1/16S3301F
					R4871		RS1/16S3302F
		01, C3602, C3617	CEV470M6R3		R4175, R48	70	RS1/16S6802F
		24, C3643, C3644, C4075	CEV470M6R3		R3261		RS3LMF330J
	C4089		CEV470M6R3		VR3003 (1 k	(Q)	ACP1089
	C4081, C40	94–C4097	CEV4R7M35			/	7.0000
	C3024		CEVNP2R2M35		VR4052 (2.2		ACP1090
	C3007, C30	00	CEVNPR33M50		VR3004 (4.7	' kΩ)	ACP1091
		00			Other Resist	tors	RS1/16S □ □ □ J
	C4063	00	CEVR10M50				
	C3001, C30		CEVR33M50	OTHE	-RS		
	C2238, C30	15	CEVR47M50	01111		DI LIC CO D	ALCMANAGO
	00010 01=	00 04044 04046 040=	051100400140		CN3002	PLUG 50–P	AKM1126
		03, C4311, C4319, C4359	CFHSQ103J16		CN3001	PLUG 44–P	AKM1155
	C4104		CFHSQ331J50			03, K3201, K3202	AKX9002
	C4103		CFHSQ332J16			14, K3801–K3826	AKX9002
	C4087, C41	02	CFHSQ821J50		K4301-K430	04	AKX9002
	C4055, C43	55-C4358, C4829	CKSQYB224K16				
	0.4000 = :	00	01/00//5 /=0//5=		X2202	CERAMIC RESONATOR	
	C4060, C40	86	CKSQYB472K50		X3801 (20.0	,	ASS1147
	C4098		CKSQYB561K50		CN2202	PLUG 6–P	KM250MA6L
	C4830		CKSQYB822K50				
	C4084		CKSQYF104Z50				
	C3010, C30	11, C4831, C4835	CKSQYF105Z16				
	C2224 C22	28, C3022, C4323, C4324	CKSRYB102K50				
		20, 00022, 04023, 04024					
	C4822	40 00040 00040 00045	CKSRYB102K50				
		13, C3016, C3210–C3215	CKSRYF103Z50				
		04–C4309, C4312, C4314	CKSRYF103Z50				
	C4316, C43	20, C4322, C4343, C4370	CKSRYF103Z50				

#### 6. ADJUSTMENT

Note: Adjustment of value analysis model are the same as those of original model except for the following:

#### 6.3 ADJUSTMENT LOCATION AND ITEMS ■ Assembly Adjustment Location (B) CONV. AMP ASSY Focus VR (VR1) (A) DEFLECTION (SERVICE) ASSY (C) DIGITAL CONV. ASSY (D) VIDEO ASSY (E) SUB VIDEO ASSY Rear View (F) SIGNAL ASSY Front View Lens assy (For Green) Deflection Lens assy Lens assy (For Blue) G CRT DRIVE Centering magnet (Turn in either direction untill cross signal becomes white.) **MEASURING METHOD** Disconnect the FBT anode cable as shown below. Measure at the point where the cable enters the FBT. Caution: Take extra precaution when ■ Adjustment Items measuring the voltage. High voltage are also **SERVICEMAN WARNING** present in surrounding circuit boards. (CRT Before removing the anode cable, turn 1 Brightness Adjustment assy, POWER SUPPLY assy) off the power, unplug the AC plug and let the unit discharge for more than 1 2 Deflection Yoke Adjustment 3 Focus Adjustment Anode Cable 4 Test-cross Position Check 5 Screen Size Adjustment Pull straight up 6 Convergence Adjustment Rubber Cover 7 White Balance Adjustment Note: Holding the rubber cover firmly, When reconnecting the cable, proceed in the 8 Panel Adjustment turn counterclockwise and reverse order. After reconnecting, tug on the check that the lock has cable to check that it is secure.

been disengaged.

9 Panel Adjustment for DTV

Table 2 OFFSET CONVER DATA

OFFSET CONVER MODE 1							
Numeric	Adjustment Item	Screen Mode					
Key		F FULL	Z ZOOM	C CINEMA	N NATURAL	H HD FULL	
		1A0	180	180	180	1B0	
1	DFH	0F0	0D0	0D0	0D0	100	
2	DFV	070	070	070	070	070	
3	HDP	010	010	010	010	010	

OFFSET CONVER MODE 2							
Numeric Key	Adjustment Item	Screen Mode					
		F FULL	Z ZOOM	C CINEMA	N NATURAL	H HD FULL	
1	HFP	0CC	0CC	0CC	0CC	0CA	
2	HCP	00F	00F	00F	00F	00F	
3	HTP	047	047	047	047	04A	
4	HHD	0EE	0EE	0EE	0EE	0E9	
5	HPW	00C	00C	00C	00C	00F	
6	V1C	01F	029	025	022	01D	
7	V1S	000	000	000	000	000	
8	VFP	01D	02D	013	033	065	

The above offset convergence values are common to the PRO-610 HD/510HD and SD-582HD5/532HD5.

If the offset convergence values are as indicated in Table 2, proceed to 3.3. If the values are not the same, adjust the values with the numeric keys and VOL +/- keys.

#### Example:

To check HDP in ZOOM mode of OFFSET CONVER. MODE 1

- ① Enter the FACTORY mode.
- ② Enter the OFFSET CONVER. MODE 1 by pressing the DOT key once.
- ③ Enter the ZOOM screen mode by pressing the SCREEN mode key once. (When the unit enters FACTORY mode, the screen mode automatically becomes FULL.)
- 4 Check the indication on the screen by pressing the numeric key 3.

Indication at the bottom of the screen: Z HDP 010 If the adjustment value is 010, adjustment is not required. If the adjustment value is other than 010, adjust with the VOL + or VOL- key so that the value becomes 010.

#### 3.3 Coarse Adjustment of the Green

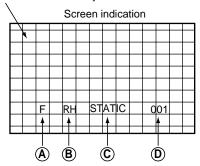
(Proceed with 3.3 and afterwards when the DIGITAL CONV. Assy is not replaced.)

Select adjustment items (STATIC and SIZE of vertical and horizontal lines, etc.) for each GH and GV, and adjust to roughly eliminate distortion. (For GV, peripheral pin distortion adjustment is necessary.)

Press the DOT key three times to enter OFFSET CONVER. MODE 3.

Press the SCREEN mode key and proceed with the adjustment for each screen mode.

The cross-hatch signal is generated inside the unit, and is automatically displayed in OFFSET CONVER. mode and MANUAL CONVERGENCE mode. You can turn on and off the cross-hatch signal with the YELLOW key.



(A)

#### Screen mode:

F : FULL
Z : ZOOM
C : CINEMA
N : NATURAL
H : FULL for HD

The Screen modes change cyclically with each press of the SCREEN mode key.

**(B)** 

Cyclically changes with the CH+ or CH- key as follows:

$$RH \longleftrightarrow RV \longleftrightarrow BH$$

$$\downarrow \qquad \qquad \downarrow$$

$$GV \longleftrightarrow GH \longleftrightarrow BV$$

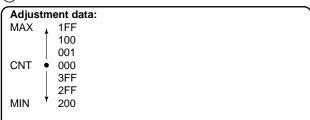
**(C)** 

Adjustment items can be selected with the numeric keys. See Table below.

#### Waveforms adjustable in the coarse adjustment of the green

Numeric Key	GH	GV	
0	STATIC	STATIC	
1	SKEW	SKEW	
6		PIN	
8	SIZE	SIZE	

(D)

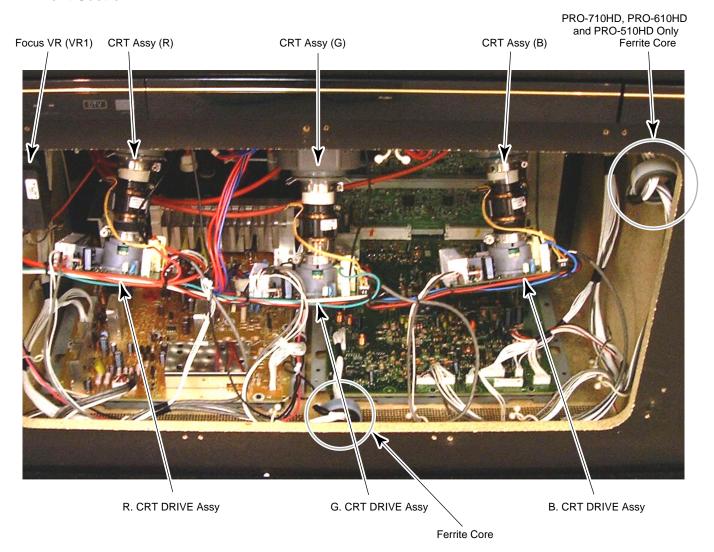


Data can be adjusted with the VOL+ and VOL- keys.

#### 7.1.3 WIRING DIAGRAM

Note: WIRING DIAGRAM of value analysis model are the same as those of original model except for the following:

#### **■** Front Section



# FBT Focus Wire At least 15 mm away from any other parts. Binder Binder

